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# HIGH TIMES

August 451

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## Making Better Budder

## LSD at 70

## Canadian Cultivation Report

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*By Friday night, the eve of the Cup, Denver had warmed up and attendees were feeling positively toasty—if not toasted. Crowds poured into the Fillmore Auditorium for a special concert by Snoop Lion.*

—A 420 to Remember, page 45

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## 45 **A 420 to Remember**

The first-ever US Cannabis Cup on 4/20 drew thousands to Denver. It was a weekend for celebrating legal pot and stellar weed.

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The 2013 Doobie Awards smoke out SXSW. *By Bobby Black*

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## 90 **High Times Interview: Adrian Grenier**

He's best known as the movie-star leader of the posse on HBO's *Entourage*, but Adrian Grenier is also a documentary producer. His latest film, *How to Make Money Selling Drugs*, is a frank exploration of the government's War on Weed. *By Mary Ought Six*



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# HIGH TIMES

# DIGITAL

Steve Hoppenfeld (Left) and Adam Whobrey, known as Hoobs & Hops, have formed a hot partnership.



## Glass Artists of the Month

Meet Adam Whobrey (a.k.a Hoobs) and Steve Hoppenfeld (a.k.a Hops): Bona fide stars of the glass company Hoobs & Hops who collaborate on a regular basis. They revel in creating hot rod cars, rat-fink-style figures and other conceptual sculptures out of glass.

Adam says glass art requires an “all in” mentality. It’s only been 10 years since he undertook the artist’s path, but he’s watched a new American art movement take root. As for his role in it, he says “There’s no better feeling than pulling off that next-level piece for the first time.”

Steve, who began blowing glass 11 years ago in Vermont, grew tired of creating the same old downstem pipes. Then, while attending a soccer game, he had his lightbulb moment. He saw a water fountain made from PVC pipe. All the way down the pipe, holes allowed water to flow out at the same rate. Hops took a piece of glass tubing, popped it with holes down its length and sealed it sideways into another tube. Thus, the inline diffuser was born! The Jagito bubbler, created by Hops, is now the industry standard.

Late last year, Hoobs & Hops opened Cobra Kai Glass Studios in Southern California to further their partnership. And *High Times* called upon them to create Snoop Lion’s Lifetime Achievement Award (see page 45), an outlandishly ornate piece featuring horns and a glass chain. The world of functional glass art awaits more greatness from this dynamic duo.

*Check out their work at [hightimes.com/glass](http://hightimes.com/glass).*

### POT POLL

## How Much Pot?

In our last poll, we asked: “What amount do you normally buy?” Of 1,000-plus respondents, an eighth was the most common amount purchased, with a quarter-ounce finishing a close second. That means most people spend between \$50 and \$150 for their stash. The important data that’s missing concerns income bracket. Buying 1-2 grams indicates either poverty or low need. Buying an ounce demonstrates a bit more financial liquidity.

*Check out [hightimes.com/polls](http://hightimes.com/polls) and cast your vote in our latest poll.*

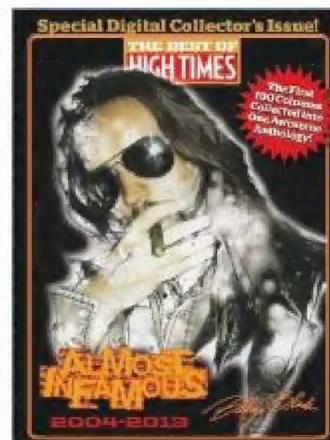
**1-2 grams...10%**  
**One-eighth ounce...23%**  
**One-quarter ounce...18%**  
**Half an ounce...13%**  
**One ounce...18%**  
**Over an ounce...6%**  
**I grow...10%**  
**I don't grow, but get mine for free...2%**



## Jen's Music Stash

Managing editor Jen Bernstein continues cutting a swath through the stoner summer music scene. Listen to her recent exclusive Slightly Stoopid interview at Red Rocks Amphitheater in Colorado.

*Listen at [bit.ly/HTstash](http://bit.ly/HTstash) @jbmusicstash*



## Infamous Anthology

To celebrate the 100th edition of Bobby Black’s “Almost Infamous” column, we’ve collected them all into one digital anthology—downloadable to your tablet or smartphone for just \$1.99.

*To order go to [hightimes.com/infamous100](http://hightimes.com/infamous100)*



## Miss August 2013

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PROFILE: [brandyblaze](http://brandyblaze)

AGE: 25

CITY: Modesto, Ca

OCCUPATION: Headshop manager

To enter or rate contestants, go to [misshightimes.com](http://misshightimes.com). You must be 18 years or older to enter.

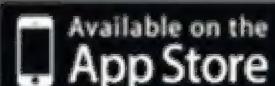


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# Thank You, Colorado!



**H**arry J. Anslinger is rolling in his grave right now. Up above him on terra firma, his life's work is being dismantled, and the yellow fingernails of his long-dead hands are no doubt clawing at the pillow-lined satin lining of his coffin. If his skeleton were able to dig its way through the six feet of earth that separates Harry from us, I believe the first commissioner of the Treasury Department's Federal Bureau of Narcotics would be apoplectic at the sight of what is now happening to his racist fantasy of "Reefer Madness."

When I first started working for *High Times* in those pre-Proposition 215 days, pot growers and pot dealers existed in the shadows—as many still do today. That's why the first U.S. Cannabis Cup in Denver this past April was a watershed moment in the fight for marijuana rights. The momentum is too strong now for us to ever return to the dark ages. At this point in history, marijuana is too big to fail.

In addition to all the attendees, vendors, entertainers and panelists who were part of the first U.S. Cannabis Cup, *High Times* magazine would like to thank the city of Denver itself for hosting this historic affair. Our event brought together over 16,000 people from across the country for a two-day celebration of personal freedom.

We cannot overestimate the importance of this moment. For nearly 80 years, US citizens have been subject to arrest and persecution for the cultivation, use and possession of marijuana. Prohibition has ruined numerous lives, and we applaud the voters of Colorado as well as Washington for starting the process of finally righting this national shame. The city of Denver just showed the rest of this country the kind of extraordinary economic opportunities that legal marijuana represents. And by allowing marijuana users to come together peacefully in the open, it has also helped erase the stigma that has been cast over cannabis culture for so long. Without question, voters throughout the nation will be looking at Colorado's shining model of progressive legislation, and more states will decide to follow its lead. It is always better to co-exist in prosperity than in suffering and enmity.

Now is the time for a new, much-needed movement to arise. While the fight for cannabis rights is far from over, we must also press home the issue of amnesty for nonviolent marijuana offenders, all those people currently imprisoned for what is now legal in some states. More work needs to be done, and we will do it—but first, let's all celebrate this special moment.

Sincerely,

Chris Simunek  
Editor In Chief

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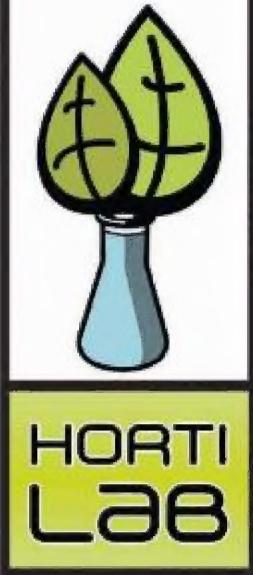


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**Vietnam War Hash?**

I picked up a piece of history recently and would like to see what you know about it. A lady sold me what appears to be a large block of hash, which she told me her brother had sent to her back when he was fighting in the Vietnam War (he later died there). She says she's had it hanging on the wall for years: It weights 3.2 pounds, has a very fancy design imprinted on it, as well as five stars and some foreign writing. On the back it is divvied up into even blocks, with the design showing where it can be broken apart into evenly proportioned squares. So please let me know who to contact about this without getting into trouble—it must have a museum value of some type, and I would like to find someone interested in displaying this great piece. Thanks!

*Detour*

It sounds to us like you have over a kilo of hash there. Hash from that region is often stamped with a gold design identifying the manufacturer. And while it sounds like a wonderful conversation piece, it is also extremely illegal. Even if there were a marijuana museum or collector in the US or elsewhere who was interested in obtaining it, the act of putting that block of hash in the mail is a felony punishable by some serious prison time, so we wouldn't recommend it.

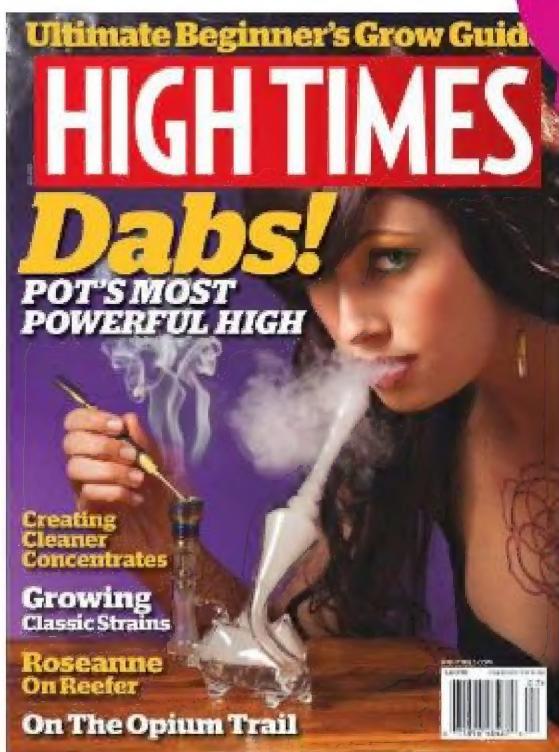
**CBD for Children**

My name is Nate Morris, and I'm on the Discovery Channel's *Weed Country*. As some of you may know, *High Times* has chosen to promote a boycott of the Discovery Channel, partly over *Weed Country*. Please understand: I'm not interested in convincing people to watch the show. Instead, I want to talk about pediatric cannabis therapies.

For all its faults, *Weed Country* has profiled a child with pediatric epilepsy who has successfully been treated using medical cannabis high in CBD (cannabidiol). That wasn't staged to make good TV—that really happened!

In recent years, there have been many reported cases of seriously ill children having remarkable turnarounds thanks to medical cannabis. The first reality TV program to document this was *Weed Wars*, which offered the story of a child with Dravet syndrome being treated with medical cannabis. *High Times* itself has even reported on this from time to time.

These stories should be a game-changer for the entire medical cannabis community. Anyone with experience growing organic medical cannabis now has a moral responsibility to produce high-CBD strains, which can be used in



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**High Times** August 2013

Our issue with the Discovery Channel regarded shows that feature police busting marijuana growers. To us, that's persecution, not entertainment. That said, we know that you are doing a lot with *Weed Country* to get issues like this out in the open and we support you and your work.

**Patients' Rights in Florida**

I'm writing to nominate attorney Michael Minardi from Stuart, FL, as Freedom Fighter of the Month. Minardi has represented me and several other medical cannabis patients in the Florida legal system by using the medical-necessity defense. My arrest was in 2009, and it took 18 months to get a trial date set. My trial was finally scheduled for May 2, 2011. Twenty-four hours before trial, the district attorney called Minardi and offered me a deal—but I had done nothing wrong and wasn't about to admit otherwise, which was part of the deal's terms. Several

hours later, the DA's office called back and said they could not take a chance with my case and would be dropping all charges!

Since then, more patients in Florida have taken a stand and are fighting back. In the last 24 months, Minardi has been successful with the medical-necessity defense several more times and has another five patients still facing trial. For his determined advocacy in court of people who use medical cannabis, I'd like to see Michael Minardi chosen as the Freedom Fighter of the Month (or Year).

*Jeffrey Kennedy*

**Miami Cannabis Cup?**

First and foremost, your magazine is awesome and I'm a loyal reader! Florida has now put forward a bill legalizing medical marijuana—in fact, this is the third such bill that has been submitted in the State Legislature in recent years, and this time its passage looks highly promising! So if Florida finally does become a medical marijuana state, would you ever have a Medical Cannabis Cup here in Miami?

*Jorge V.*

We'd love to, Jorge. Call your state lawmakers and get that bill passed!

**Now that the parents of special-needs children are aware of the power of CBD, the supplies cannot nearly keep up with the demand.**

the treatment of so many people, including children. Nothing is more important.

Now that the parents of special-needs children are aware of the power of CBD, the supplies cannot nearly keep up with the demand. Children are suffering and even dying because their parents can't find the medicine they need. The readers of *High Times* have the power to end this nightmare. Imagine how history will remember this movement if we step up to the plate as a community and help those who suffer from these horrible diseases. We can do this.

If you are growing cannabis, track down a high-CBD plant and start growing it. If you breed medical cannabis, start a program of selective breeding for high levels of CBD. If you already have high-CBD plants, reach out to the parents of special-needs children in your community. They will require a lot, so do your best to make it affordable.

If you've ever thought about growing medical cannabis, now's the time. Take a stand to save another person's life. Occupy your own CBD farm! You can find the people most in need of our help by visiting the new Facebook group, the CannAxis Patient Network.

Thank you.

*Nathaniel Morris*  
[NateMorris@CannAxis.com](mailto:NateMorris@CannAxis.com)



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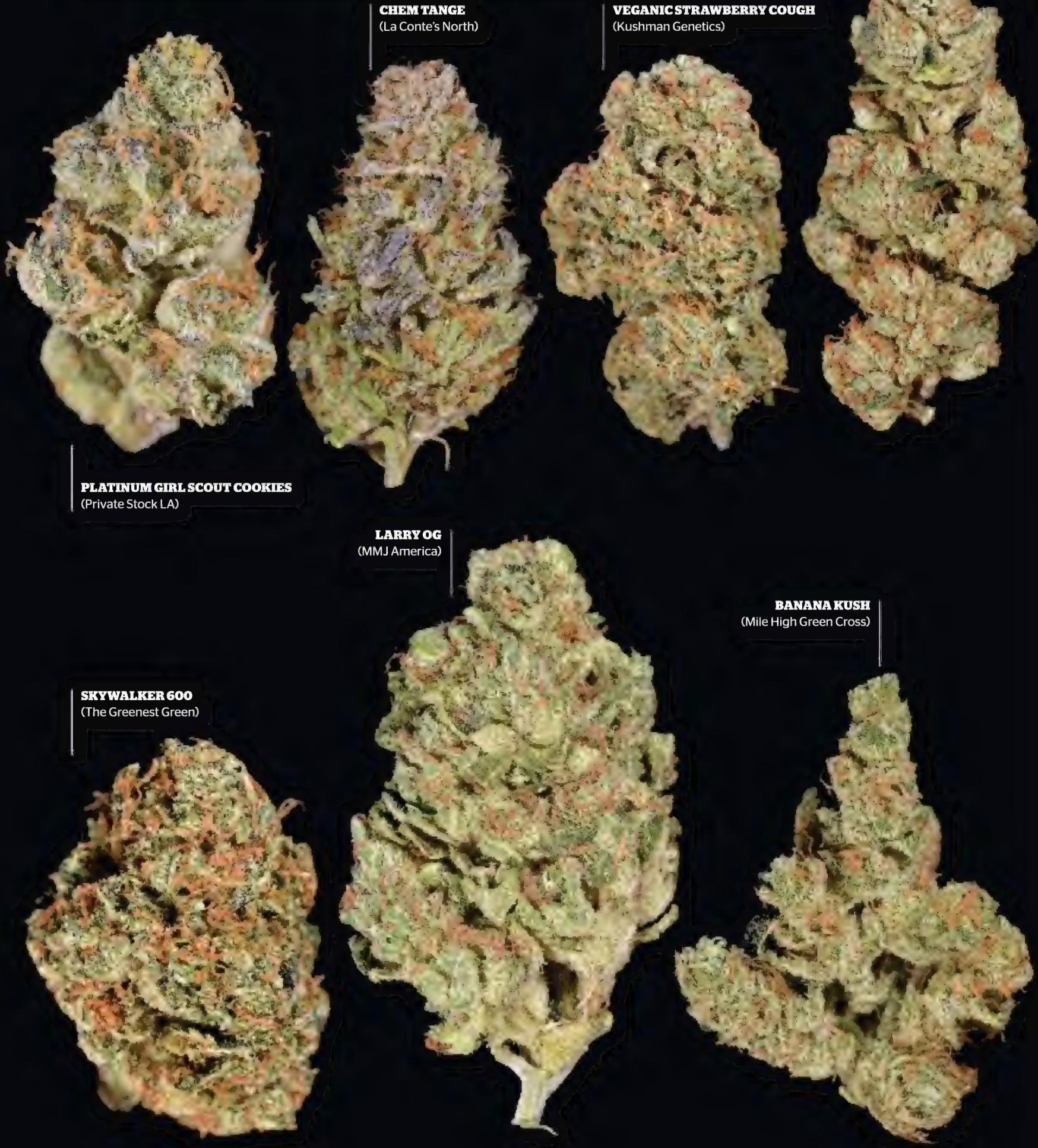


VERY STONED WITH SLIGHTLY STOOPID The HotBox Party at legendary Red Rocks sponsored by *High Times* and GrowLife Inc. featured performances by Tribal Seeds, Cypress Hill and of course, Slightly Stoopid. Their epic set began with the band exiting a smoke-filled Mystery Machine and ending with over 10,000 happy fans more than slightly stoned. *Photo by Kim Sidwell*

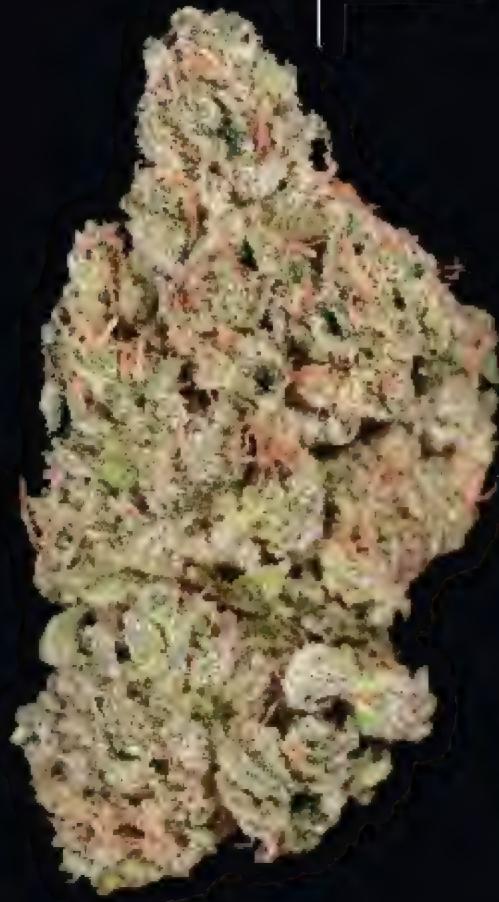


**Contact High**

**DENVER'S FINEST NUGGETS** Behold the illustrious dried marijuana flowers judged to be the best buds and overall winners at the first-ever High Times U.S. Cannabis Cup in Colorado! These sensational strains rose to the very top of their categories by exhibiting pleasing aromas, tantalizing flavors, clean-burning properties and of course the ultimate in pot potency levels.



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(Natural Remedies)



**GHOST OG KUSH**  
(The Clinic Colorado)

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2 - TIE: Chem Tange by La Conte's North  
and Veganic Strawberry Cough by Kushman Genetics  
3 - Kosher Kush by DNA Genetics

**MEDICAL HYBRID**

- 1 - R-18 by Denver Relief
- 2 - Cinderella '99 x The White by Natural Remedies
- 3 - Ghost OG Kush by The Clinic Colorado

**MEDICAL INDICA**

- 1 - Skywalker 600 by The Greenest Green
- 2 - Larry OG by MMJ America
- 3 - Banana Kush by Mile High Green Cross

**MEDICAL SATIVA**

- 1 - Tangie by The Clinic Colorado
- 2 - Durban Poison by Choice Organics
- 3 - Stardawg Guava by The Clinic Colfax

**TANGIE**  
(The Clinic Colorado)



**DURBAN POISON**  
(Choice Organics)



**STARDAWG GUAVA**  
(The Clinic Colfax)



**Contact  
High**

**THE GREENHOUSE EFFECT** Out in the farmland of Ontario, Canada, Medical Marijuana Alliance Resources provides medicine to patients at astoundingly low prices. But Health Canada is poised to dismantle the nation's medical marijuana program, making patients pay higher prices. Check out "Growing Colder" on page 74. *Photo by Dan Skye*





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# Highwitness News

Rachel gets rocked by reefer!



## Entertainment

### "Float"-ing with Styles P

HT records releases a stash of stoner rap. p.30



## Food

### Primo Pot Cookies

Simple and sweet knockout treats. p.34



Trite rhetoric never gains much long-term traction. By the early '90s, pot had made a complete cultural comeback.

## Uncle Sam Flunks Out

For decades, the US government has invested in anti-drug programs that target school-age children. And they've proven to be an epic failure. *By Mark Miller*

**In many instances**, anti-drug programs are our children's first encounter with the cannabis leaf and other archetypal drug imagery. The image of the evil leaf is stamped indelibly on the child's visual memory, sharing cerebral space with favorite toys and cartoon characters. It's an abrupt childhood pit stop, an occasion to scare the bejesus out of impressionable young minds.

And it's been going on for decades. Essentially, innocent children have had their classrooms invaded—along with their TVs, smartphones and computer screens—by one professionally crafted, government-funded propaganda campaign after another. Ironically, the

practice of targeting young children with these anti-drug programs constitutes a widespread indoctrination of American kids into the subculture of marijuana, as well as other illegal and actually *dangerous* drugs. In some instances, these propaganda efforts—ranging from the ubiquitous Drug Abuse Resistance Education (DARE) program to Nancy Reagan's insipid "Just Say No" campaign—have actually been shown to *encourage* drug use.

But before DARE and Nancy Reagan, there was Art Linkletter. He was the host of *House Party*, a popular afternoon talk show. Its most famous segment was "Kids Say the Darnedest Things," in

which an avuncular Linkletter interviewed several children and elicited humorous responses.

In 1969, Linkletter's daughter Diane committed suicide. The distraught father blamed a "bum trip" on LSD for her death, but the toxicology report came back negative. Even so, following passage of the federal Controlled Substances Act in 1970, Linkletter became an avid anti-drug crusader and, because of his supposed rapport with children, visited schools across

America to "educate" them about the evils of countercultural dope.

Linkletter would earnestly relate the tragic story of his daughter. But he didn't tell students the whole truth about Diane: that she'd been suffering from serious depression independent of any drug use. Then again, revising the inconvenient truth is an enduring hallmark of the War on Drugs.

Linkletter would also provide children with "drug coloring books" during his visits. One memorable page featured an anthropomorphized wolf—dressed like a hippie, of course—looking over his shoulder. (Why? Because pot was making him paranoid.) But for virtually all of the students, that wolf drawing would be their introduction to the subject of marijuana.

Significantly, a child's view of a wolf is that of a sneaky, dangerous predator, the fearsome creature of fairy tales like "Little Red Riding Hood" and "The Three Little Pigs" with their Big, Bad Wolf. However, for many kids, the wolves in

coloring books and similar depictions may have lent an undercurrent of allure to the drug/pot experience on a subconscious level. And in fact, Linkletter's school-to-school touring did little to deter kids from experimenting later in life. The so-called "drug culture" may have had its origins in the 1960s, but many have argued that it didn't really enter the mainstream until the 1970s. Cannabis became so culturally pervasive that a sitting president—Jimmy Carter—actually advised Congress to decriminalize marijuana nationwide in 1977. The anti-drug crusaders weren't about to let that go down, but it's still indicative of how popular cannabis use had become among Americans, despite the best efforts of Linkletter and others.

By the 1980s, Linkletter had faded away and Nancy Reagan became the nation's primary anti-drug crusader, famously instructing a generation to "Just Say No." Pot use did, in fact, decline during the '80s—for a time. But trite rhetoric never gains much long-term traction, and by the early '90s, cannabis had made a complete cultural comeback.

DARE was formed by the late Daryl Gates, the controversial and combative police chief in Los Angeles. It flourished in the '90s by employing a more

**If the government remains gung-ho on spending well over a billion dollars on anti-drug programs for young people, focus on genuine education instead of manipulative propaganda.**

interactive strategy, in which cops were hired to brainwash kids with Drug War propaganda for 10 weeks. Afterwards, students would pledge to stay drug-free for the rest of their lives during an over-the-top "graduation ceremony."

But there has been one big benefit to these organized anti-drug efforts: They provide cold, hard stats proving that the propaganda shoveled out by the likes of DARE was not only worthless but counterproductive. A federal study in 2003 found that DARE exposure triggered a "boomerang effect" in young people, making some "DARE graduates" *more* likely to try illegal drugs. And a government-sponsored report in 2006 revealed that advertising propaganda weakened anti-drug norms while increasing the perception that other kids use marijuana (thus conditioning young viewers to believe that such use is acceptable—perhaps even desirable).

And throughout its history, DARE has courted controversy by essentially training kids to serve as "junior narcs,"

encouraging them to spy and inform on their parents and other adults using drugs.

So is there an alternative to this failed approach? Sure enough. If the government remains gung-ho on spending well over a billion dollars on anti-drug programs for young people, then focus on genuine education instead of manipulative propaganda. Teach kids the entire reality of drugs, both the appeal of the high and the dangers of abuse—and include legal pharmaceuticals!

Let's be truthful about marijuana, because more young people are turning to it these days as an alternative to cigarettes and alcohol, for one very good reason: because they know it's much safer. So why not spend all that money to send scientists, physicians and medical researchers into the schools and give students the best objective, big-picture look at drugs? After all, kids are more likely to listen to adults when they know they're being told the truth. 

## HIGH FIVE

### Stupid Is as Stupid Does

Marijuana is subject to some of the most brainless laws in America.



**Felonious Possession**  
Arizona's cannabis laws are more ancient than the Grand Canyon. It's the only state still prosecuting petty pot possession as a felony. First-timers generally get offered probation, but even being busted with a modest amount can earn you 18 months behind bars and a \$150,000 fine. If you're near a school, add another year to your prison sentence.



**Three Stupid Strikes**  
They don't have Major League Baseball in Louisiana, but they do have a ludicrous "three strikes" law designed for habitual offenders, which insanely includes those with a habit of smoking pot. To the rescue comes HB 103, a bill in the Louisiana House of Representatives that would remove cannabis possession as a "strikeable" offense triggering harsh mandatory minimums—up to 20 years in prison for a third bust!



**Stop-and-Frisk Risk**  
Possession is simply a fine in New York, but the NYPD can force any "suspicious-looking person" (read: young minorities) to empty their pockets. But once it's out in the open (even at a police officer's "request"), it constitutes public display, which can and usually does result in your arrest. Recent attempts to standardize New York's pot laws to misdemeanor status remain pending.



**Petty Sales = Life**  
Oklahoma's punishment for the sale of *any* amount of pot is downright medieval: incarceration for two years to life. Case in point: Patricia Spottedcrow, a Native American woman and mother of four young kids, who got 12 years for selling \$31 worth of weed (twice) to a narc. It's yet another case that demonstrates how Oklahoma unfairly punishes women and minorities for pot.



**Might as well Deal**  
In Florida, if you're caught with more than 20 grams, the penalty is the same, whether you attempt to sell it or not: a misdemeanor carrying a five-year sentence. Possession of less than 20 grams is still a year in prison. If you grow, keep it under 25 plants—otherwise, it's evidence that you intend to sell or distribute. Previously, a more logical 300 plants was the standard.



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## Kick Your Butts Now!

It's not unusual for those who smoke pot *and* cigarettes to say that they crave the latter more fiendishly after getting high. Although there's been only anecdotal evidence concerning this phenomenon to date, a new study—courtesy of the Feds—has produced some unsettling results for pot smokers addicted to nicotine.

As reported by *Medical News Today*, two sets of lab rats were used in the study. One set was exposed to THC, while the other received a placebo for three days. A week later, both groups of rats were trained to self-administer nicotine. Researchers found that the THC-treated rats not only gave themselves an intravenous nic-fix faster and more frequently, but they also "worked harder" to obtain the toxic alkaloid that millions of Americans remain hooked on.

Just as disturbing, cigarettes compromise the healing attributes of pot. A 2009 University of British Columbia study found that those who smoke pot and cigarettes have an increased risk of developing debilitating chronic obstructive pulmonary disease, even though the same study found no higher COPD risk for people who smoke pot but not cigs.



## Dank for Dogs

Dog owners who are also pot smokers often wonder about the effect of the herb on their pets. It's a contentious issue: Some say their pets actually "like" pot, while others rail against the very idea, arguing that since pets can't give their consent, it's morally wrong to alter their consciousness.

Veterinarian Doug Kramer, the inventor of all-natural, rapid-dissolve strips for administering therapeutic herbs to pets, is now weighing in. He tells *Vice* magazine that after he "dosed" his dog Nikita, who was suffering from terminal cancer, she was up and around and enjoying a better quality of life throughout her final days.

Kramer also says that pot can induce the munchies in ailing cats. Felines—who are often finicky about food when they're sick—respond favorably to the appetite stimulus that pot provides. Kramer notes that animals with cannabinoid receptors are capable of benefiting from the effects of THC.

But don't expect Rover to share that joint with you—and never blow smoke in his face! Pets in need of med-pot should ingest cannabis in the form of a tincture or in food cooked in canna-butter or oil.

## Poppies vs. Pot

In Mexico, poppy production—the plant that supplies the base for heroin—is rapidly supplanting cannabis, according to Fox News Latino and the investigative website *Animal Politico*. In 2012, anti-drug enforcement actions in Mexico destroyed 40 percent more poppy plants nationwide than pot plants, according to the Mexican defense ministry.

The ascendancy of poppy fields in Mexico started five years ago, and it isn't limited to just one section of the country: It's a trend that runs north to Chihuahua and south to the Yucatan. One big factor for this shift is the fact that legal marijuana in the US has led to a reduction in demand for Mexican pot (long regarded as inferior to domestic bud anyway). But the darker side of the trend is an apparent increase in the US demand for heroin—a thirst that ruthless Mexican drug cartels are eager to quench, especially given their losses in black-market pot sales. Though Mexican cartels account for only 7 percent of the world's heroin, their smack is primarily mainlined right into the arms of their addicted neighbors to the north.



## We Got the Numbers!

A majority of Americans now support legal recreational marijuana. According to an April survey conducted by the Pew Research Center, a record 52 percent of the 1,501 adults polled nationwide agreed that pot should be legal, with only 45 percent opposed. That represents an impressive 11 percent across-the-board spike in support since 2010.

More men (57 percent) than women (48 percent) currently favor legalized cannabis, partly because more men (54 percent) than women (42 percent) have smoked pot, with 48 percent of all respondents confirming that they've tried cannabis at least once. An overwhelming 72 percent of everyone polled agreed that the enforcement of anti-pot laws isn't worth the cost. Furthermore, 60 percent of respondents said they want the Feds to back off any state that has legalized pot.

# Reefer Relief

When pitted against conventional anti-nausea drugs, "marijuana wins hands down." So says Dr. Phillip Leveque, who helped to craft Oregon's 1998 medical marijuana law and, at age 90, remains a tireless advocate for the medicinal use of pot. A World War II veteran who served under Gen. George S. Patton, Dr. Leveque still suffers from post-traumatic stress disorder nearly 70 years after the war, rendering him particularly well qualified to treat modern-day soldiers suffering from PTSD.

A doctor of pharmacology, Leveque possesses a unique perspective when it comes to contrasting the efficacy of medical pot against the drugs peddled by Big Pharma, which he detailed in a recent op-ed piece for the *Salem News*. Specifically, Dr. Leveque compared med-pot's prowess as an anti-emetic drug to the most widely used anti-nausea pharmaceuticals, such as Compazine, which was originally developed as an anti-psychotic medication. Unfortunately, Compazine has nasty side effects that strike the central nervous system, such as pseudo-Parkinson's disease (which may not be as bad as the real thing, but trust us—you do not want it).

Dr. Leveque's experience and research have also led him to recommend medical pot over the legal prescription drug Marinol, which is made from synthetic THC and lacks the across-the-board effectiveness that pure pot possesses. Because edible pot products like brownies aren't always a viable option for treating people with severe nausea, Dr. Leveque concludes that the inhalation of cannabis is the "best, safest and fastest" method for those seeking nausea relief.



McAdams deals with insomnia.

## A Dose of Rachel

From now on, we're shopping where Rachel McAdams buys her groceries! The Canadian actress was on *Jimmy Kimmel Live!* and recounted her recent experience with medical pot.

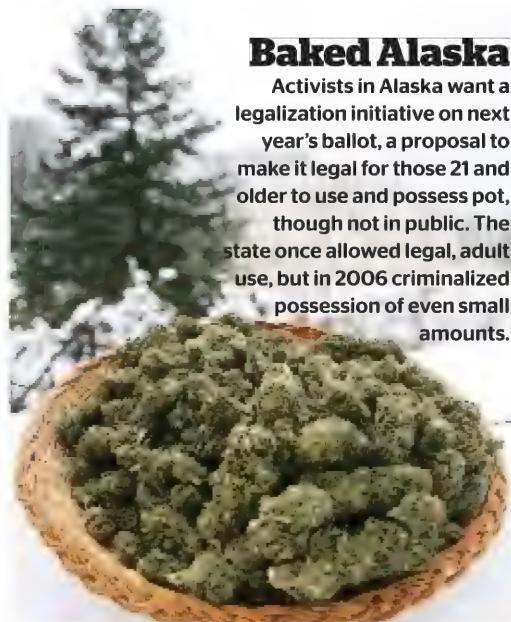
She was shopping in her local Toronto grocery and told a worker she was having trouble sleeping. He promptly produced an unlabeled bottle containing a "dark green substance"—most likely a tincture. McAdams took a whiff and realized it was marijuana. She was assured that it wouldn't get her high. Since she was "pretty desperate" to catch a good night's sleep, she took the "tiniest teaspoon" before hitting the sack.

Um, Rachel? You don't take a teaspoon of tincture.

She recounted her experience thusly: "I was hallucinating. I wasn't thinking normal human thoughts." In fact, she says, she heard a guy singing opera for five straight hours!

The next day, McAdams confronted her grocer, who was perplexed that the medicine didn't put her to sleep. That's when she looked closely into his eyes and deduced that he was a "stoner."

Oh, no—not one of those! Whoever could have expected that someone offering a sleep aid that smelled like marijuana might possibly be a stoner? Though, really, if you're a well-paid movie star, why would you rely on someone working in a grocery store for medical advice in the first place?



## Baked Alaska

Activists in Alaska want a legalization initiative on next year's ballot, a proposal to make it legal for those 21 and older to use and possess pot, though not in public. The state once allowed legal, adult use, but in 2006 criminalized possession of even small amounts.

## It Hurts to Laugh

At the annual White House Correspondent's Dinner in April, President Obama once again demonstrated that he's completely out of touch with pot politics. Traditionally, the Prez yucks it up at the event. In his speech, Obama joked: "The media landscape is changing so rapidly. You can't keep up with it. I mean, I remember when *BuzzFeed* was just something I did in college around 2 a.m."

You'd think that someone who prides himself on his sensitivity would be a bit classier. Pot arrests continue unabated—ruining lives—and patients can't access medicine.

Here's a thought, Mr. President: If you'd been busted for pot back in college, you wouldn't be President today.

Funny, huh?

## Hail Maryland!

On May 2, Maryland became the 19th state to approve a medical marijuana program when Governor Martin O'Malley signed the measure. The bill allows academic medical research centers to establish programs to dispense marijuana to sick patients. Unfortunately, the state bureaucracy predicts that it won't be able to have the program operating until 2016. Additionally, advocates are none too happy with the bill's guidelines: A participating medical center will be required to specify the medical conditions it would treat and the criteria by which patients would be allowed to participate. A medical center also will have to provide the state health department data on patients and caregivers on a daily basis. Furthermore, the department will be required to make the data available to law enforcement. Wouldn't it be nice if lawmakers would stop treating cannabis as if it were radioactive?



## HIGHWIRE

## Dispatches from the international drug war. By Bill Weinberg


**China: Drug Lord's Execution Sparks Dissent**

Accused Burmese drug lord Naw Kham was executed in China on March 1 along with three of his accomplices for the murder of 13 Chinese merchant sailors on the Mekong River in 2011. The executions were carried out by a court in Kunming in Yunnan Province.

A Chinese public security official told the daily *Global Times* that Beijing had considered but rejected using a drone strike to kill Naw Kham after his hideout was discovered in Burma's northern mountains. Southeast Asian media have suggested that the massacre of the Chinese merchant ship's crew may have been related to a dispute over methamphetamine smuggling routes.

**Honduras: US "Drug War" Aid Linked to Death Squad**

Officially, US State Department aid to the Honduran National Police must bypass units under the direct supervision of the force's overall commander, Director General Juan Carlos Bonilla (a.k.a. "El Tigre"), who in 2002 was accused of three extrajudicial killings and links to 11 more deaths and disappearances in so-called "social cleansing" operations. Bonilla was tried on one of those killings and acquitted; the


**Cannabis Cannon Discovered in Mexicali**

Police in the border city of Mexicali on February 27 announced the discovery of a powerful improvised cannon used to blast packets of marijuana across the border fence into California. Police told Mexico's Televisa network that the device consisted of a plastic pipe and a metal tank that used compressed air from the engine of an old car. The apparatus fired cannabis-packed cylinders weighing up to 13 kilos, police said. It was confiscated after US officers informed Mexican police that they had found a large number of drug packages that appeared to have been fired over the border. This is not the first projectile device used by dope smugglers; a cannabis catapult was found on the Arizona border in January 2011.



other cases were never fully investigated. But a report by the Associated Press, based on interviews with unnamed Honduran officials, found that all of the country's police units are actually under Bonilla's direction. Speaking on the record was Celso Alvarado, a criminal law professor and consultant to the Honduran Commission for Security and Justice Sector Reform. "Every police officer in Honduras, regardless of their specific functions, is under the hierarchy and obedience of the director general," he said.

**Mexico: The Drug War Continues—and So Does the Mayhem**

On March 11, a ferocious three-hour gun battle erupted in the streets of

Reynosa, Tamaulipas, just across the Mexican border from Hidalgo, TX, between rival narco factions armed with automatic weapons and grenades. Authorities were absent for most of the shoot-out, which left some three dozen gunmen and two bystanders dead—one just a teen. An exact death toll was elusive, as cartel gunmen collected their own dead during the battle. On March 16, five days later, another fierce gun battle claimed five more lives in Reynosa, according to Tamaulipas state authorities. The firefight came just one day after Mexican federal police found five tons of marijuana, 370 pounds of crystal methamphetamine and a large weapons cache in underground bunkers in Reynosa—including 20 rifles, 10 bulletproof vests, a gas grenade, 20 uniforms, radios and tire spikes.

While the gun battles soon became common knowledge through social media, Mexico's



mainstream news organizations have remained mum about them, apparently intimidated by the cartels—and perhaps by the Mexican government.

**A Wave of Barroom Balaceras**

Seven people were killed on March 29 when a masked gunman in a bulletproof vest and black uniform opened fire with an AK-47 in a bar in the commercial center of Chihuahua City in northern Mexico. Three of the dead were women who worked at the bar. The city has seen a wave of violence as the Juárez and Sinaloa cartels battle for control of the strategic corridor leading to the border town of Ciudad Juárez, immediately up the highway to the north.

**Strange Deaths in Michoacán**

In a mysterious incident on March 16, local drug lord Dionisio Loya Plancarte (a.k.a. "El Tío") was killed by army troops near the Michoacán town of Apatzingán. Five soldiers were also killed in the shoot-out with El Tío's men, according to local reports—but Mexico's federal government has been unusually silent on the matter. The killing of El Tío is being portrayed in the local press as retaliation for the disappearance of three members of Mexico's elite presidential guard, the Estado Mayor Presidencial, while on an unnamed mission in Apatzingán. El Tío had been at various times a leader of both of Michoacán's warring narco factions, La Familia and the Knights Templar.

**Los Zetas Diversify Their Portfolio**

Authorities in Mexico's coal-producing northern state of Coahuila say that the notorious Zetas, bloodiest of the country's warring cartels, have taken over much of the mining industry. Former Coahuila governor Humberto Moreira said the Zetas are expanding their control over the state's mines, both legal and illegal. "They discover a mine, extract the coal, sell it at \$30 and pay the miners a miserable salary," he told Al Jazeera. "It's more lucrative than selling drugs." \*

For updates on these and other stories, see Bill Weinberg's websites, GlobalGanjaReport.com and WorldWar4Report.com.



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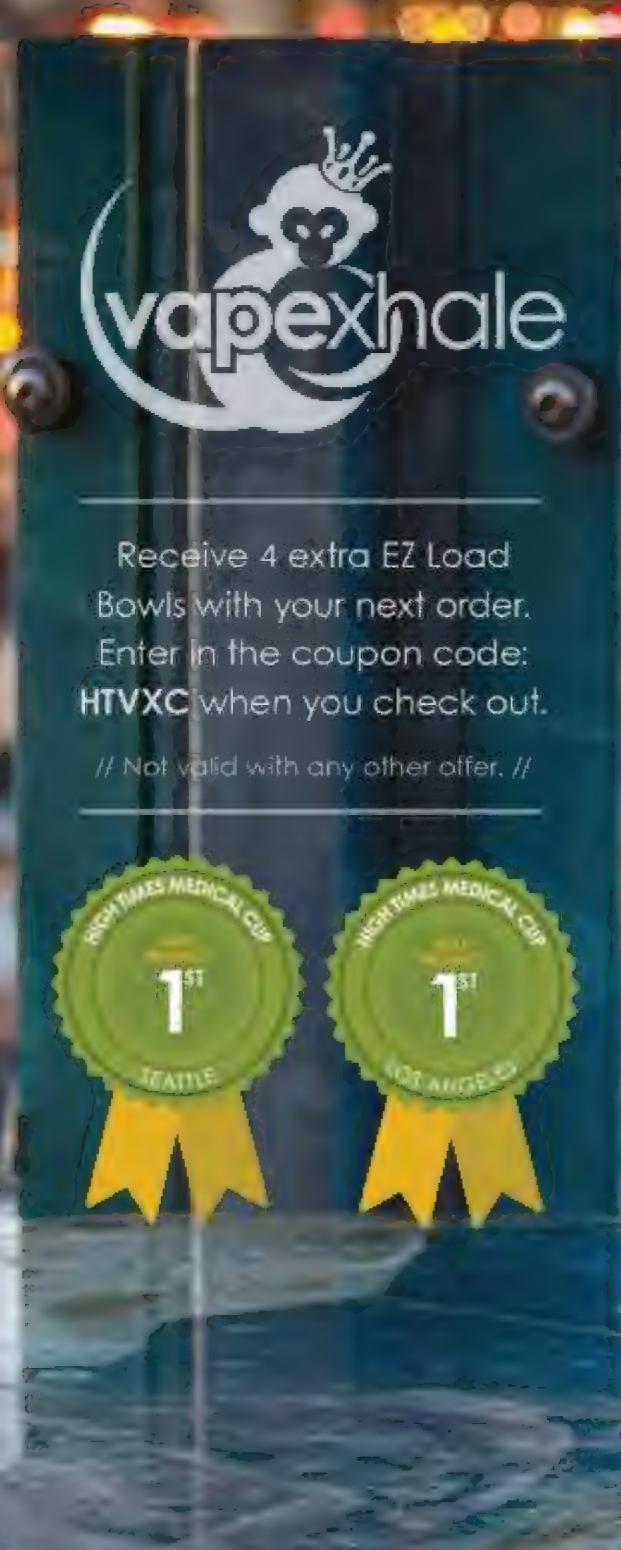
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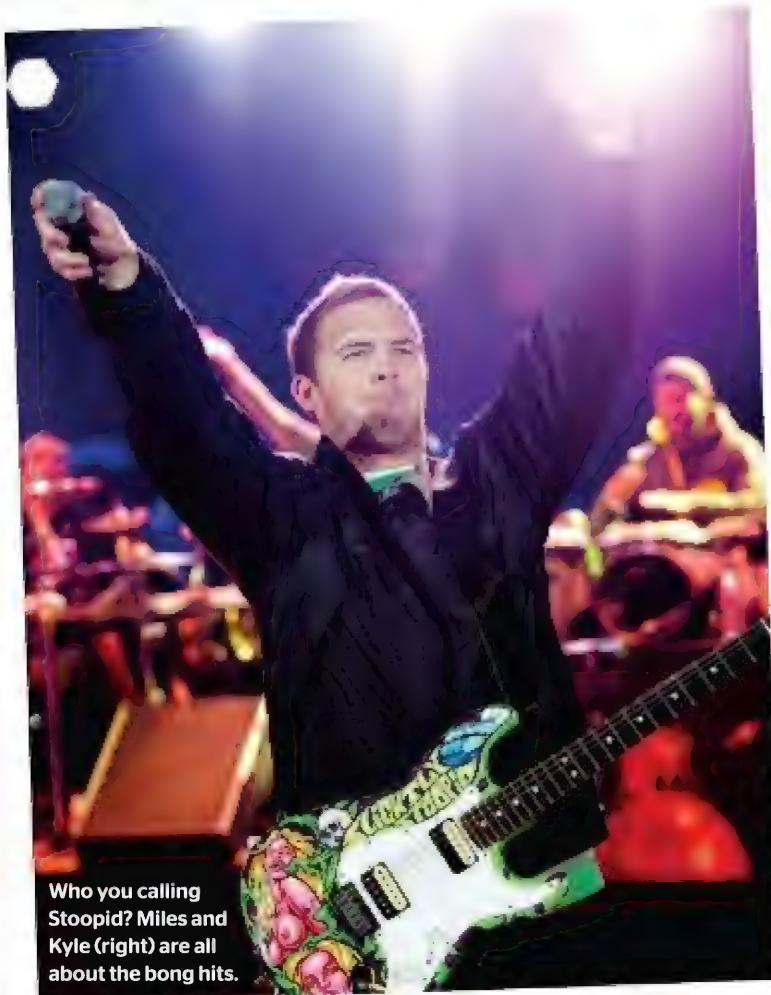
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Who you calling Stoopid? Miles and Kyle (right) are all about the bong hits.



## Hot Box the Rocks

Backstage with Slightly Stoopid on 4/20. *By Jen Bernstein*

**Miles and Kyle sat down with High Times on the ultimate stoner holiday before the most epic of shows to talk favorite strains, legalization and the pot economy.**

**It's so awesome to be here with you guys on 4/20. How's it been so far?**

Miles: I've been stallin' out smoking weed just 'cause I gotta sing in two hours and there's so much good bud...it's been the hardest day of my life! My morning started with someone dropping me off a QP and I couldn't smoke it.

**I've got some edibles, y'know, so it doesn't affect your voice?**

Miles: No, I don't eat bud, I smoke bud! That's the whole thing for us. I love smoking a bong.

Kyle: Yeah, we're so used to smokin' it that when we eat it, it just fucking turns us into a statue. Dude, have you seen our backstage right now? It's fucking gnarly. You can't hardly breathe, there's nothing left to drink, nowhere to sit and the whole place is hot boxed.

Miles: I believe it is the 4/20 hot box day, right, so...

**It is! Happy 420 hot box. What an amazing day we're getting to celebrate.**

Kyle: It's good to be out here with *High Times* so... can't complain.

**Thanks. We're fans!**

Kyle: It's always good. What's nice is that we have the godfathers of the marijuana movement between Cypress Hill and *High Times*,

you know what I'm sayin'? We're the supporters too, so putting Stoopid and Cypress together, for me it's great.

**Yeah, it's the ultimate 4/20 party. And legal! How's it feel different than California?**

Miles: It should be this way everywhere, honestly. Obama supports it and that's where it should start.

Kyle: It also cycles out. I mean, as the youth get older, the old people cycle out. It's just like skateboarding. Back in the day we'd get busted for fucking skateboarding and now everyone encourages their kids to go skateboarding. Would you rather have your kids skateboarding or out fucking joining a gang? So now it's like skateboarding is a huge part of society, same thing with weed.

**It's great for the economy.**

Kyle: It's good for everything!

Miles: Look at all the

school programs they cut because of financial ruin in our country and what the government spends. You could generate so much tax dollars where we're not dumbing our children down because the first thing we cut in this country is what? Education. The high school I coach at, they eliminated the arts program. No more graphic arts, no more wood shop. That stuff is gone.

**I know you guys have to get out on stage soon, so quick, tell me your favorite strains?**

Kyle: The OG Kush is the bomb. Wet Dreams. Banana Kush. Bull Rider.

Miles: Yeah, the old-school Bull Rider. I haven't seen the old-school Bull Rider in a long time. Granddaddy Purps. Blueberry Kush.

Kyle: Albert Walker. I like Grapefruit... the sweet *sativas* that taste like oranges. \*

Hear more of Stoopid's interview with Jen at [hightimes.com/stoopid420](http://hightimes.com/stoopid420).



Our new Miss High Times 2013 Yvette, flanked by Miss HT 2011 Clazina (left) and 2012 Emily (right).



# Passing the Torch

Miss High Times 2013 is crowned in Denver. *By Bobby Black*

**A hearty congratulations** to our first ever Latina Miss High Times Yvette Marie Ramirez! Our former Miss November 2012 joined four of her fellow finalists on stage at the U.S. Cannabis Cup awards show in Denver, where her predecessors Emily (Miss HT 2012) and Clazina (2011) passed down the crown and sash to our lovely new beauty queen.

"I was shocked," says Yvette. "It still feels unreal."

Originally from Santa Barbara (now living near Sacramento), this petite Mexican American hottie describes herself as a "typical Cali girl" who loves skateboarding, camping, hiking and headbanging to hard rock and heavy metal. She's also a dancer and promotional model who has appeared in more than a few photo shoots and music videos. More importantly, she wears her love for maryjane on her sleeve—or rather, her right hip, where she sports a rather large pot leaf tattoo. What's more, for the past five years she's run her own small-scale grow, the fruits of which she supplies to a local dispensary.

"I love watching my babies grow in my garden—it's a very satisfying feeling," she says. "I decided to enter the Miss High Times contest to show everyone that I'm not just another model or actress—I'm also a farmer, and I don't care if people see what I love doing."

Yvette has attended several legalization rallies in Northern Cali, as well as the last four of our domestic Cannabis Cups. Now that she's our official smokesmodel, she'll also get to experience our European event as well: along with the crown and sash, she's won a free trip to Amsterdam this November, where she'll get to be a celebrity judge at our 26th Cannabis Cup.

"I'm really looking forward to living up to all of my Miss High Times duties and of course going to Amsterdam," she gushes. "Thank you for giving me this killer opportunity ... I will make you all proud!" \*

Peruse some of Yvette's sexiest shots at [hightimes.com/missht2013](http://hightimes.com/missht2013)



Working at our last LA Medical Cannabis Cup.



## MISS HIGH TIMES 2013 VITAL STATS:

- Age: 26; Height: 5'3"; Weight: 104 lbs.
- Measurements: 34", 26", 28"
- Favorite strains: Girl Scout Cookies, Trainwreck
- Has starred in videos for Richard The Rock Star, Real One, Promize and Edgar Winston
- Named Sacramento Hempfest Princess 2012



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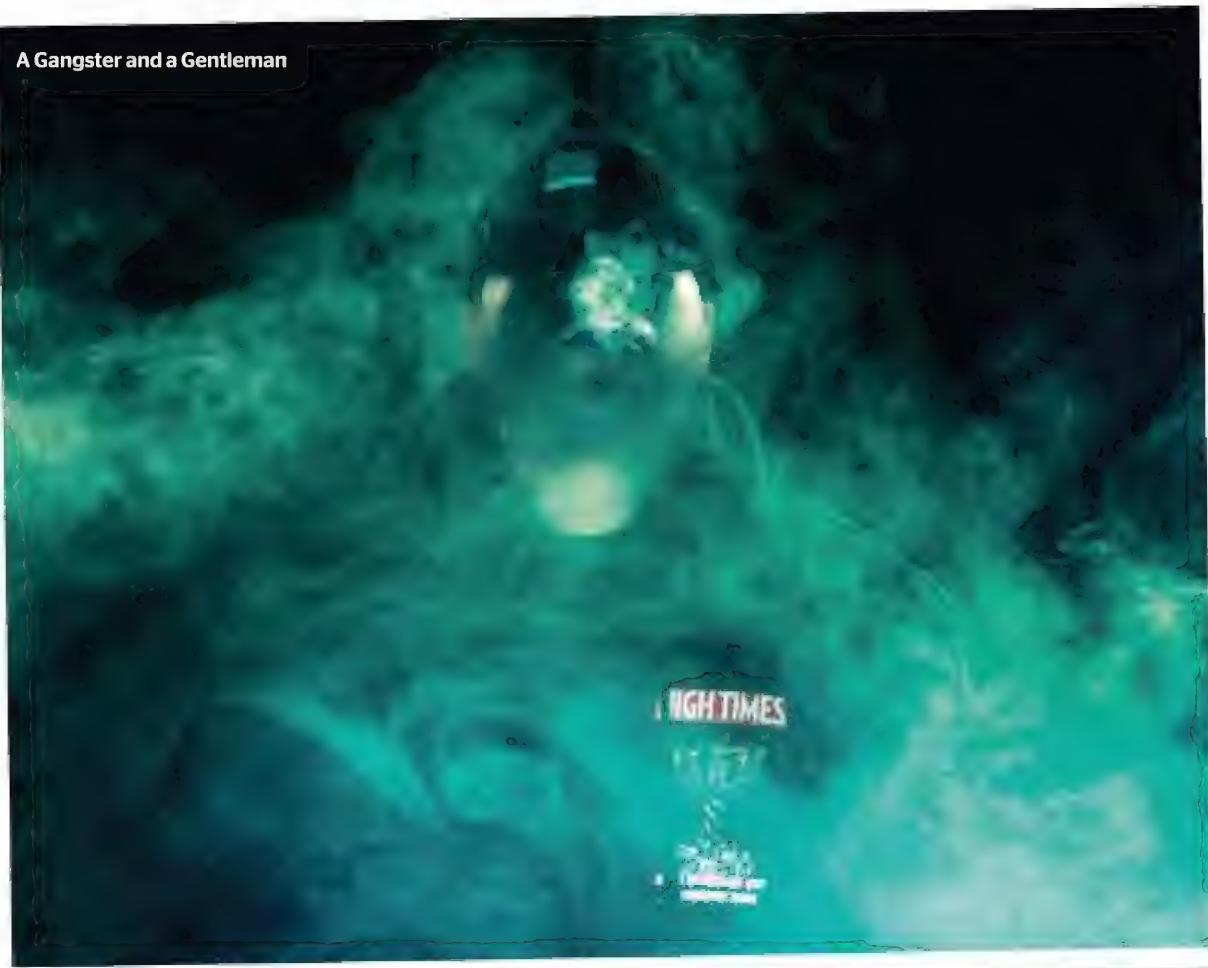
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# High Styles

*Float*, the latest album by Styles P, dropped on 4/16. But as far as Styles is considered, the release party happened on 4/20, which included a trip to the first High Times US Cannabis Cup in Colorado. In case you haven't guessed, Styles P is a true stoner's rapper: His mixtapes and albums are gritty, grimy, high as a kite and packed with beast NYC beats. *Float*, produced entirely by Scram Jones, is all of that and a bag of dank—especially since the label was High Times Records, in conjunction with Nature Sounds. *HT* caught up with Styles P before his New York City release show, which was dope all around. *By Mary Ought Six*

## Welcome to High Times

### Records—about time, huh?

This is my first project with High Times Records, and I don't know why! Me being a high person, I've always loved *High Times* ... but I think everything happens for a reason, and God has His own time. I'm here now, and it's a great thing. I'm a super-pothead. I love *High Times*, and I love weed.

### So what's next?

Next it's the LOX project, and I'm working on my second novel.

### Great! I need to read *Invincible!*

Yes, you do!

### Any hints about the second book?

It's fiction. I don't write that life shit, autobiography about hip-hop and all that. I'm a pothead, so I like to be creative and think of crazy shit—but I won't tell you what, though, 'cause I'm only halfway through. [Laughs.]

### Did writing fiction spawn from writing lyrics?

I don't *write* lyrics ... I can't *write* lyrics. I've always

been used to just keepin' it in my brain and singin' it. When I wrote the book, it was actually really difficult, because I'm not used to writing.

### What inspired you?

I've always wanted to be a writer, to produce films also—that's the trifecta I want to complete. Right now, me and



### "I Need Weed!" (Styles P's top 5 strains):

- Girl Scout Cookies** - When I wanna relax and think.
- OG Kush** - For when I'm chillin' & lounging.
- NY Sour Diesel** - When I'm in zone-out work mode.
- Haze** - For a heavy and thoughtful need-to-rest high.
- Jack Herer** - To mellow it all out.

**"If you want to know something about me and my music: My pen and my paper is weed."**

my homie Poobs—you hear me shoutin' out to him on the mix-tapes all the time—are working together on a couple of scripts. You'll be hearing from me sooner or later.

### Wanna shout out to our readers?

I just want to tell them I'm a fuckin' pothead. I think that as potheads, as stoners, we have an understanding about each other and a way of life. Personally, weed keeps me calm, keeps me cool, it's what helps keep me level. So if you're not a stoner, you're not going to like *Float* anyway. But whether you love it or you like it or you don't, just respect it as a stoner. We've gotta support other potheads, because we're the greatest people in the world.

If you want to know something about me and my music: My pen and my paper is weed. So when you hear my music and you hear *Float*, understand that it's the weed that mixes with my chemical energy which gives you the product that comes forth.

I'm just another pothead in the world tryin' to get by. Roll that shit. Light that shit. Smoke it. \*

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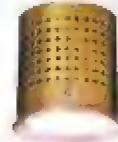
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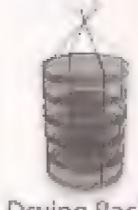
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## Alfalfa Sprouts and Mashed Yeast

The salad days of a hippie cult.

**As usual, Woody** Allen—the Mahatma of Midwood, Brooklyn—reveals Great Truth. In a scene from his classic *Annie Hall*, Allen's character is at the Source, a vegetarian restaurant in the sun-soaked capital of crap called Los Angeles, and orders “alfalfa sprouts and mashed yeast” with a grimace. The Source was a popular spot on the Sunset Strip in the '70s, and *The Source Family* tells the tale of Jim Baker, a.k.a. Father Yod, the restaurant's owner and guru to the cult of young hippies who staffed the joint.

Baker was a charismatic, 6-foot-4 hipster/con man who killed two men stateside with judo chops (and possibly one bullet). After amassing cash by robbing banks, he became a wealthy restaurateur. By the 1960s, the fortysomething Baker was holding meditation classes for his wait staff. Eventually, they all moved in together and started referring to Baker as “Father.”

Many of the young 'uns—surprise!—were

from dysfunctional homes and, according to photog Ron Raffaelli, became “automatons, robotic” via Father Yod's recycled religiosity and ritually dispensed sacred herb. Baker recorded a whopping 65 albums with his rock band Ya Ho Wha 13. To Baker's wife's shock, he also mated with other hippie chicklets, collecting 14 simultaneous supplicating squaws. “It's a game,” he instructed. “Play it.”

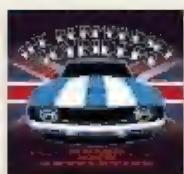
Eventually, the racket fell apart when everybody flew to Hawaii, and Baker—in a moment of clarity—realized that “I'm not God, I'm just a man.” Two years after he was mortally wounded hang-gliding, the Source Family grew up and out in 1977. To be fair, interviews with aging Source-ers show that many of them believe they lived through a profoundly positive experience. Either way, filmmakers Demopoulos and Wille let the final judgment reside in the eye of the beholder—to coin another Great Truth.

Michael Simmons



**The Source Family**  
Produced and directed by Maria Demopoulos and Jodi Wille  
(Drag City Film Distribution/Gravitas Pictures-VOD)

## MUSIC RECOMMENDATIONS



**The Bermondsey Joyriders**  
*Noise and Revolution*  
(Fuel)

“I can't get no satisfaction / Talkin' 'bout my generation,” sing these Brits in “Right Now.” The familiarity is intentional: The Bermondsey Joyriders are veteran punk-rockers who howl with the energy—and pronounced limey phrasings—of the Sex Pistols. With ties to Strummer,

Generation X and Johnny Thunders, their pedigree is distinguished. Performance poet and MC5 manager John Sinclair is also on hand to thread together these two-minute anti-property-developer/piss-on-politicos manifestos in deep Detroitese, adding both wit and gravitas. *Michael Simmons*



**Greys**  
*Drift*  
(Kind of Like Records)

Though their name and EP title suggest the misty and ethereal, Toronto quartet Greys jack out stormy, down-tuned, mathy rock that's alternately blazing and plodding (like staggering through mud on a forced march in a faraway country). The band's sound harks back to Drive Like Jehu, Rapeman, and

other post-hardcore stalwarts of the late '80s and early '90s, but the vitriolic vocals (which take the opening track, “Carjack,” to 11) and streamlined sound (stop-start guitars riding even with a thundering rhythm section) place them squarely in the modern age of post-digital angst. *Polly Watson*



**Singe/Dank Mobb**  
*Bag of Weed*  
(Rehabb Labb)

It's hard to say if our friend Singe likes gushy pussy, sticky weed, automatic guns or the Bay Area of Cali the best—but whichever one it is, he's always on the green. With smooth beasty beats, cool rhymes, and lyrics that range from Iraqi firefights and fallen soldiers to sexy parties and

gettin' fucked up, Singe burns through his tracks with a signature West Coast rap style reminiscent of Ice Cube and Tupac. This latest album is great for cruisin', blazin', fuckin' and fightin', all wrapped up like a big ol' blunt, ready to go straight to your noggin and keep it bobbin'. *Mary Ought Six*



**Akron/Family**  
*Sub Verses*  
(Dead Oceans Records)

Yet another evolution awaits art-roots trio Akron/Family on their sixth album. Prior iterations have sampled acid folk and avant rock. While elements of each remain, *Sub Verses* primarily explores dreamy yet dramatic prog-psych. The 10 tracks lull you in and bubble beneath the surface with activity.

The highlight here is “Sand Time,” which suggests Adrian Belew undergoing brain-salad surgery as they sing, “You can borrow money, but you can't borrow time.” The album's a cavernous grower that moves like the shimmering raga accompanying a fiery late-night desert ritual. *Chris Parker*



**Iggy and the Stooges**  
*Ready to Die*  
(Fat Possum Records)

After the original Stooges guitarist Ron Asheton died in 2009, Iggy recruited the only man who could possibly fill his shoes: James Williamson, axman on the seminal 1973 punk masterpiece *Raw Power*. Opener “Burn” recalls that album's heavy crooner “Gimme Danger,” and it sure is nice to

hear Williamson again after his retirement from music in the late '70s. There are some good riffs on this, and while nothing approaches “Search and Destroy,” Iggy fans will relish the chance to hear this lineup one more time. Me? I'm more looking forward to catching this line up live. *Chris Simunek*

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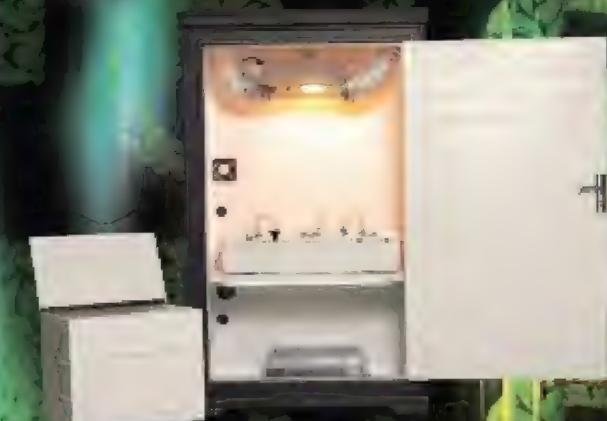
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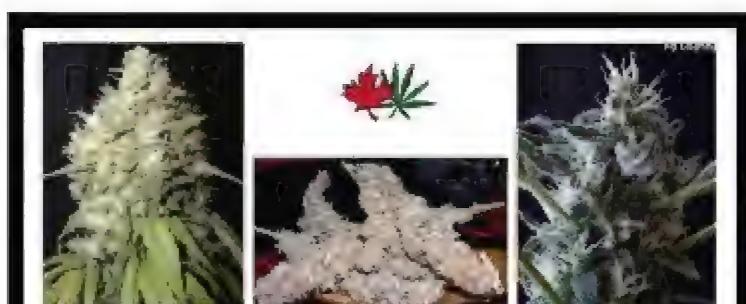


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### MUNCHIES

## Dixon's Doozies

Tasty meds for pain.

**This month**, we have a very special treat: A good friend of the magazine, activist and cannabis baker Louie Dixon Jr., has shared one of his potent medical pot recipes with us. These cookies are simple and sweet, and they're guaranteed to knock your pain, nausea or appetite loss right out the window. Plus they're made from his beloved Aunt Carol's recipe, passed along to his mother and then to Louie Jr. himself, who modified it for us stoners all the way back in the '70s. Yep, he's a pro.

Like many of our favorite peeps, Louie spent a good deal of his life in the fast lane, until a drunk driver caused

the motorcycle accident that changed his life forever. Despite back surgery, liver-consuming meds and a subsequent cancer diagnosis, Lou Dawg's still going strong and sharing his secrets with us. And he's garnered some great tips along the way—which only makes sense, since in 1997 he joined us for our annual High Times Cannabis Cup in Amsterdam and didn't come back for a year, soaking up as much healing power and knowledge as he could during his time there. "I'd gotten so much healthier!" Louie proclaims.

Which isn't to say that life became easy. Still struggling with all of the aforementioned ailments, Louie has trouble keeping on weight while working as a bricklayer, and he also has personal battles we can all relate to. So when you make these wonderful cookies, bake them with love: They are for counting blessings, appreciating what we have in life despite our pains and travails, and recognizing that struggle brings strength and that strong pot cookies bring healing.

*Mary Ought Six*

### DIXON'S DOOZIES

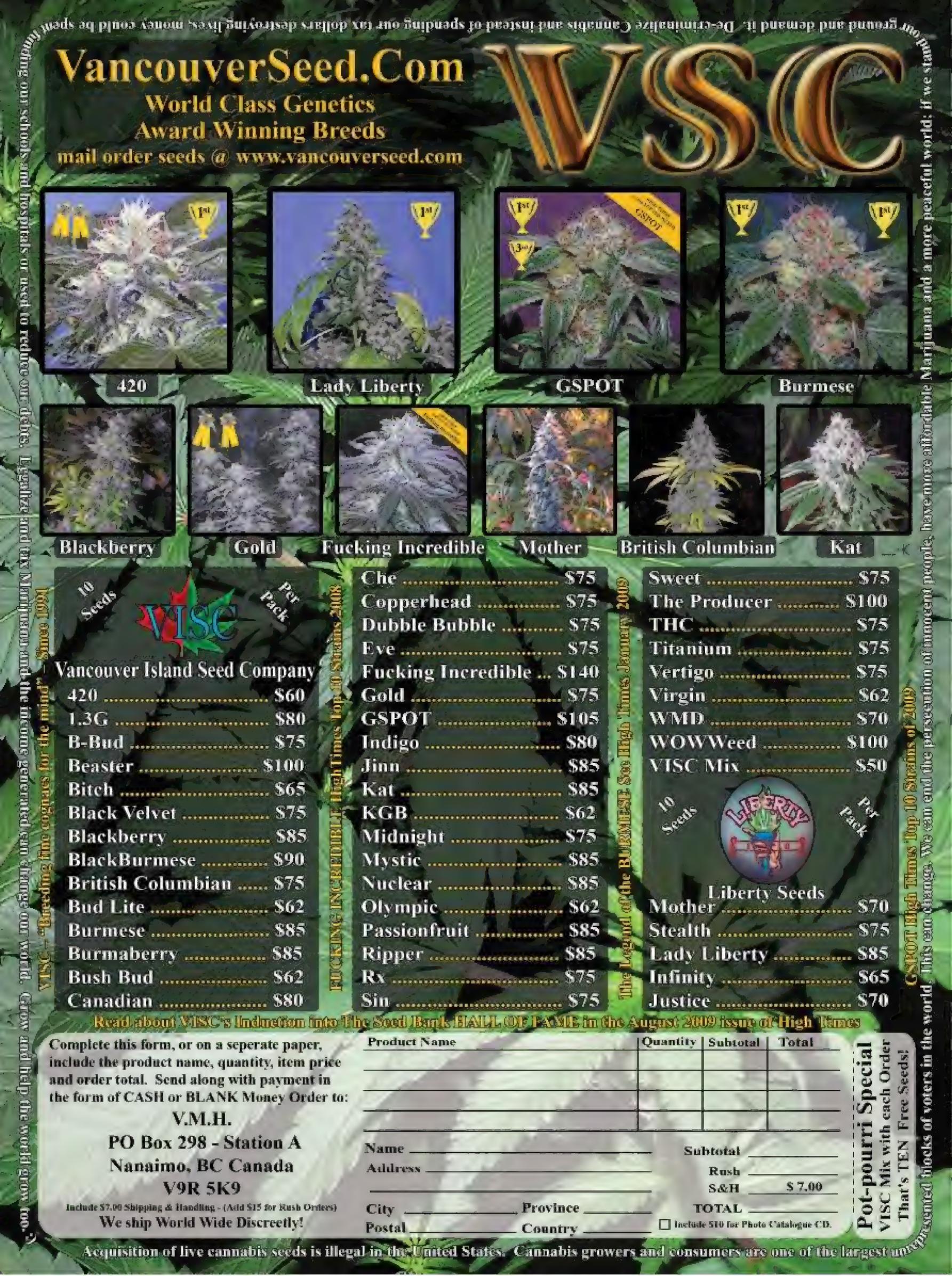
1 cup butter (4 sticks, unsalted)  
 ½ oz. crushed bud and high-grade cannabis trim  
 4 cups water  
 2½ cups flour  
 ¼ tsp. salt  
 ¾ cup walnuts, finely ground  
 ½ cup confectioner's sugar (set aside for last step)  
 1 tsp. vanilla

For this recipe, we're going to use Louie's tried-and-true Dutch oven method. Combine the butter and water and bring them to a simmer, never letting them reach a boil. When the butter is melted, add the cannabis and cook for two to three hours over low heat. You can adjust the potency of the butter by adding kief to the mix while cooking. Keep the mixture covered with the Dutch oven lid and then place in the fridge to cool completely.

The medicated butter will float to the top as it hardens, and there's no need to squeeze it through cheesecloth, as the plant matter will stay in the water at the bottom.

Make sure the butter is completely hard and rinse off any excess greenery with cold water. Now let the butter soften on the counter a bit for ease of use.

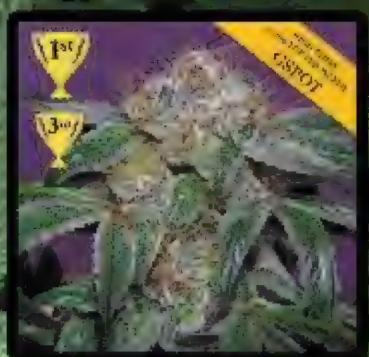
Next, preheat the oven to 400°F. Mix all of the dry ingredients and add the butter and vanilla. Form the dough into balls roughly three-quarters the size of a golf ball and place on a nonstick baking sheet. Bake at 400°F for 12 to 15 minutes. While still warm, roll the cookies in confectioner's sugar once, then again. Rx: 20 mega medi-balls.



420



Lady Liberty



GSPOT



Burmese



Blackberry



Gold



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Mother



British Columbian



Kat

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## ► Medical Strain of the Month

Girl Scout Cookies can now be enjoyed all year long!



## Girl Scout Cookies

I want to begin this column with a very important public service announcement for all of the hardworking and heroic cannabis breeders of the world—a simple bit of advice that could have a huge impact on your future prospects as we approach a bright green future of full marijuana legalization:

Please don't name your strains after a trademarked product!

After all, when Wall Street finally decides to break open its gold-plated checkbook and start buying up every high-quality pot strain in sight, those of you who have braved the black market and done the hard, often underappreciated work of creating new marijuana varieties should be poised to cash in big time, or at least listen to a really impressive offer before telling the guys in the expensive suits and ties to go fuck themselves.

Except for one problem: That amazing hybrid of *indica* and *sativa* you bred by brushing pollen from your strongest male carefully onto the resinous flowers of your finest female now carries a moniker like Luke Skywalker, Charlie Sheen OG or Lucky Charms. (And don't even get me started on Green Crack!)

Suddenly, it doesn't matter how much THC and CBD your

strain produces when lovingly grown by a master cultivator—let alone the delicate blend of terpenes and flavonoids that gives it a powerful, pleasing aroma and taste—because no product named after an already established trademark or copyrighted work will ever make it to market. (At least not until after those Wall Street guys cut you out of the loop entirely and just rename the plant something corporate and stupid.)

Naturally, none of the above in any way detracts from the joy and relief the strain currently known as Girl Scout Cookies already provides to patients and puffers alike. Hailing from The Hemp Center in San Francisco, Girl Scout Cookies boasts the kind of lineage—(OG Kush x Durban Poison x Cherry Kush) x OG Kush—that allows her to make her own friends. Clone only, and requiring up to 70 days to flower, the strain's perhaps misguided name undoubtedly stems from the hints of vanilla and mint amid its powerful citrus Kush blast.

So don't let the inevitable future "cease and desist" letter from Girl Scouts of the USA stop you from sampling one of the hottest new West Coast strains of the last few years while it's still around under its current name. \*



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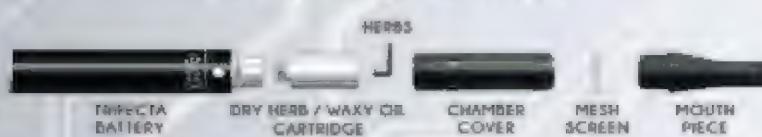
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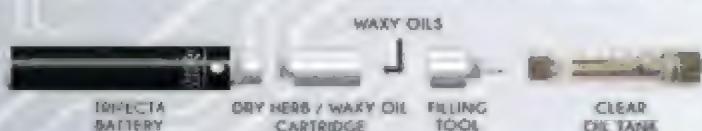
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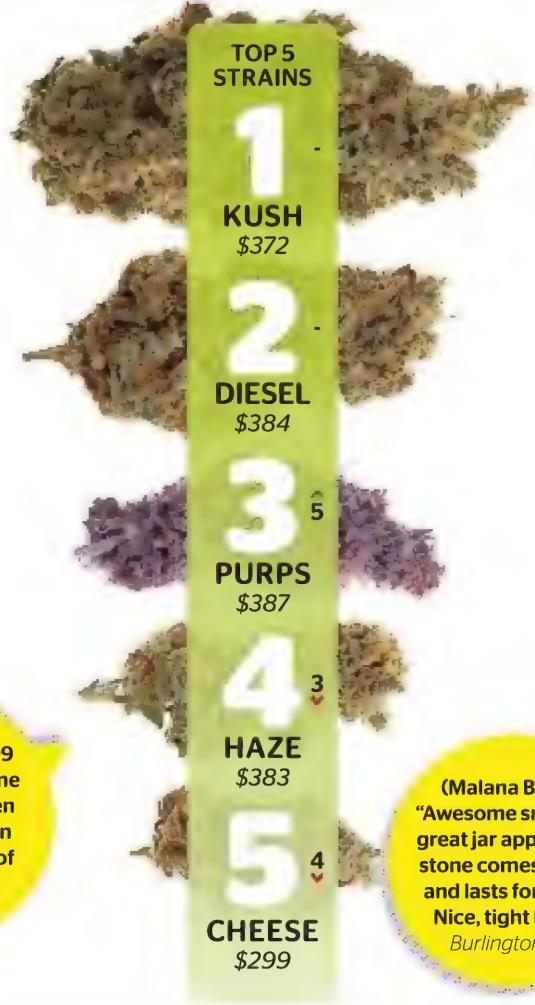


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## MARKET ANALYSIS

Prices by the ounce

The US Price, Kind and Mids indices held steady this month. The Kind Index experienced the largest shift, finishing \$10 above its previous month's average and reaching \$400 per ounce for the first time since February. Meanwhile, after establishing a new high for 2013 in July, the Schwag Index dropped \$28 and hit a year low at \$97 an ounce.

US Price Index  
YTD Average: \$328Kind Index  
YTD Average: \$395Mids Index  
YTD Average: \$275Schwag Index  
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California	Los Angeles	Girl Scout Cookies	340
		Skywalker OG	275
	San Francisco	Charlie Sheen	240
		Tahoe OG	350
Colorado	Denver	Space Queen	380
		Snowcap	300
		Ghost OG	400
Delaware	Pike Creek	Death Star	300
		Platinum Kush	370
		Blue Dream	370
Florida	Orlando	Jack Herer	400
		The Flav	320
Hawaii	Maui	Chocolope	360
		Super Silver Haze	400
Indiana	Indianapolis	Granddaddy Purps	450
		Headband	350
Maryland	Baltimore	Super Silver Haze	380
		East Coast Sour Diesel	400
Michigan	Detroit	Sour OG Kush	420
		Big Buddha Cheese	400
		OG Kush	500
Minnesota	Winona	Lavender	400
		Sour Diesel	420
New Jersey	Hoboken	Guava Chem	400
		Strawberry Cough	420
New York	New York	Sour Diesel	450
		Malana Bomb (Auto)	400
		Grape Ape	400
Ohio	Columbus	Kind	360
		White Widow	220
Oregon	Portland	Apollo 13	210
		MK-Ultra	320
Pennsylvania	Allentown	Lavender (Soma Seeds)	330
		Trainwreck	350
Tennessee	Dickson	White Widow	450
		Nashville	450
Virginia	Richmond	Purple Haze	380
		Dutch Treat	295
Washington	Marysville	Black Domina	240
		Harlequin	250
Wisconsin	Madison	Afgooley	320
		INTERNATIONAL	
Canada	Ottawa	Blue Domina	C\$200
		M-39	140
		Cinderella 99	210

We want to know what you're smoking! Submit your strain information, location and price by the ounce to [thmq@hightimes.com](mailto:thmq@hightimes.com) or on Twitter using #THMQ.

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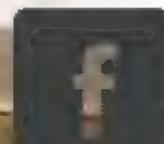
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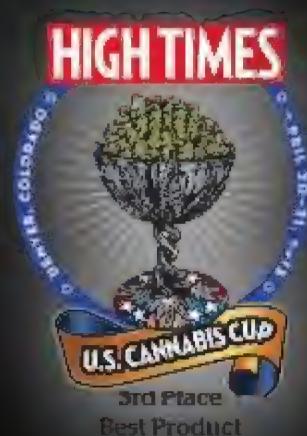
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# A 420 to Remember

Thousands descend upon Denver for the first-ever U.S. Cannabis Cup.



Snoop Lion proudly displays his Lifetime Achievement Award on the eve of the first U.S. Cup.

**A**ccording to Isaac Newton, an object in motion will not change its direction or velocity unless an external force acts upon it. The marijuana community knows something about that. We've set the buds—er, ball—in motion. And we continue to push, accelerating pot's favorability across the country. Still, we must remain vigilant against "external forces": lawmakers who seek to reverse that progress or retard our momentum. That's one of the reasons we turn out in force, and in ever-increasing numbers, every year on April 20, our freewheeling national holiday—to send the message that there's no going back to the days of *Reefer Madness* and nationwide prohibition.



Without a doubt, this century's biggest pro-cannabis milestone was Election Day 2012, when Colorado and Washington voters legalized pot for adult recreational use. We've just witnessed the birth of a new era. No longer were we *hoping* for this day; we had actualized it. It was now real!

Evolution takes over from here—something our community will relentlessly

poke and prod as well. We want new and better pot laws in America. We want the Feds to recognize our will—and the truth of what we've been saying all along.

Suffice it to say that, 165 days after the state's historic legalization victory, Colorado was poised for an epic 420 celebration. So, it turns out, was the rest of the country. In fact, if you listened closely, you could almost hear "If you build it,

they will come" drifting on the Rocky Mountain wind.

But the wind brought some wild spring weather, too. Even as *High Times* arrived in Denver to set up and host the first U.S. Cannabis Cup, two snowstorms occurred in the week leading up to the event—and just 48 hours before the doors opened, the temperatures stood in the low 20s. Still, as all pot lovers



View highlights of the US Cup at [hightimes.com/uscup](http://hightimes.com/uscup).





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6



7

6. Cypress Hill rocks with Slightly Stoopid at Red Rocks Amphitheater.  
7. The legal seminar with top attorneys Michael Stepanian, Gerry Goldstein, Michael Kennedy, William Rittenberg and Keith Stroup.  
8. Snoop spins his favorite tunes.  
9. Incredibowl took top prizes for Best Booth and Product.  
10. Hip-hop pioneer Busy Bee presents the Cup for Best Medical Concentrates.

**The media was out in force as well, with Vice, CNN, Bloomberg, National Geographic TV and—horrors!—Fox News shooting the high drama.**



8



9



10

know, it's not unusual for serendipity to smile upon stoned endeavors—and sure enough, temperatures started to rise and the snow began to melt.

By Friday night, the eve of the Cup, Denver had warmed up and attendees were feeling positively toasty, if not toasted. Crowds poured into the Fillmore Auditorium for a special concert by Snoop Lion (a.k.a. Snoop Dogg) and a presentation of *Redemption*, which chronicles his recent foray into Rastafarianism. Andrew Tosh opened for Snoop and lit up the joint.

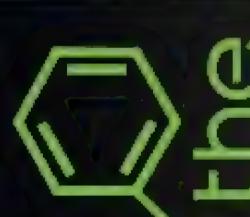
Snoop was slated to DJ, but before he

began spinning, *High Times* presented him with the Lester Grinspoon Lifetime Achievement Award. Snoop's prize was a smokeable trophy created by top glass artists Hoobs & Hops. The audience applauded him by showering the rapper legend with joints. Later, when the clock struck midnight and 4/20 officially began, he returned the favor, throwing joints back at them as the balloons rained down.

*High Times* has held two prior Cup events in Denver, but they were Medical Cannabis Cups, which meant the products of Colorado canna-businesses on

display at the vendors' booths were available only to state-sanctioned patients. But thanks to legalization, *High Times* decided to rechristen the event as the U.S. Cannabis Cup and threw its doors open to anyone in the nation, if not the world, who wanted to attend.

It's been estimated that by 2017, Colorado will enjoy an annual tax benefit of \$60 million by amending the state constitution to allow legal adult use. The High Times U.S. Cannabis Cup demonstrated that, in addition to tax revenue, non-cannabis businesses of all sorts stand to prosper as well: Well over



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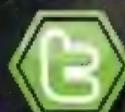
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16,000 people attended the event, with vast numbers coming from outside Colorado to sample this newfound cannabis freedom, which is open for any adult visiting the state to enjoy. Talk about economic stimulus! Hotels were packed, restaurants were filled, and merchants citywide were hardly complaining.

Add to that number 50,000 more who attended the massive 420 rally at City Hall Park. Unfortunately, that celebration was marred by gunfire; three people were wounded, and while the wounds were not life-threatening, the cops ended the rally and cleared the park to conduct their investigation.

Even so, those who chose to spend their April 20 at the U.S. Cannabis Cup were feted by over 200 vendors, many of whom gladly welcomed attendees with a healthy dab hit or cannabis edible. The EXDO Event Center, which housed *HT*'s two earlier Medical Cannabis Cups in the city, expanded its grounds to include a local street and an entire adjacent outdoor lot that was transformed into the Cup's recreation area. (As in prior years, the Cup offered medication areas as well, which remained restricted to Colorado medical marijuana patients.)

The outdoor scene surged with stoner



**Yvette Ramirez of Sacramento, CA newly crowned as Miss High Times 2013.**

activity. Milo, the big cheese behind Big Buddha Seeds, erected a massive pagoda-like structure to greet customers and serve up his Cheese strains. At the center of the recreation area, 420 Wellness amped the crowd with a thumping

DJ booth and an unceasing giveaway of joints, buds and pot-laced treats. Hitman Glass brought their arsenal of dab weaponry for attendees to lock and load, while Incredibowl's top brass enlisted a veritable army of crowd-pleasers to smoke out eventgoers, thereby winning enough hearts and minds to receive the award for top product at the two-day expo. The hostesses at Pure Glass enticed Cup attendees with their merchandise, as they did at the recent *High Times* Medical Cannabis Cup in San Bernardino, and again walked away with Best Glass honors.

The media was out in force as well, with *Vice*, CNN, Bloomberg, National Geographic TV and—*horrors!*—Fox News shooting the *high* drama. Even the London *Sunday Times* sent correspondents.

Highlighting the top pot products of Colorado is the whole point of the Cup, and the vendors who entered their strains in the formal cannabis competition sponsored by *High Times* also offered their wares to the crowd. Throughout the preceding week and culminating in the awards show on Sunday night, panels of judges and an independent lab qualified, quantified and tested the entries to ensure that each

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One attendee shows his dedication is more than skin deep with a tattoo of the Cup on his back!

strain, concentrate or edible was properly assessed. This meant that when the time came for the first U.S. Cannabis Cups to be handed out in Denver, the cream of Colorado's crops rose to the top. \*

## U.S. CANNABIS CUP WINNERS 2013

### US MIXED FLOWERS

1. Veganic Girl Scout Cookies, by Private Stock LA/Buds & Roses
2. (tie) Chem Tange, by La Conte's Clone Bar & Dispensary and Veganic Strawberry Cough, by Kushman Genetics
3. Kosher Kush, by DNA Genetics

### US MIXED HASH

1. Tangie Shatter, by Reserva Privada
2. Lemon Amnesia Shatter, by Archive Seed Bank/TerpX
3. Lemon OG Solventless Hash, by Buds & Roses LA/BAMF Extractions

### MEDICAL NONSOLVENT HASH

1. Flo-G Solventless Wax, by Essential Extracts
2. D-Star Solventless Wax, by Botica del Sol
3. Presidential Ice Wax, by The Green Solution

### MEDICAL CONCENTRATES

1. Gucci-Earwax, by Mahatma Extreme Concentrates/Karma-ceuticals
2. Lemon G-13 Shatter, by Gaia Plant Based Medicine and TC Labs
3. Pre '03 Kobe, by Stay Concentrated

### MEDICAL HYBRID

1. R-18, by Denver Relief
2. Cinderella '99 x the White, by Natural Remedies
3. Ghost OG Kush, by The Clinic-Colorado

### MEDICAL INDICA

1. Skywalker 600, by the Greenest Green
2. Larry OG, by MMJ America
3. Banana Kush, by Mile High Green Cross

### MEDICAL SATIVA

1. Tangie, by The Clinic-Colorado
2. Durban Poison, by Choice Organics
3. Stardawg Guava, by The Clinic-Colfax

### MEDICAL EDIBLES

1. Bhang "Ice" Peppermint Chocolate Bar, by Karmaceuticals/The Healing Leaf
2. Peanut Butter Buddha, by Incredibles
3. Walnut Joy, by Good Chemistry

### CBD AWARDS

Concentrates: R4 Stable CBD Oil, by Greenwerkz-Denver  
 Flowers: R4 (*sativa* strain), by Greenwerkz-Denver  
 Edibles: Active CBD Oil, by Natural Mystic Cannabis Caregiver

### BEST BOOTH

1. Incredibowl
2. 420 Wellness
3. Vape X

### BEST PRODUCT

1. Incredibowl Vulcan
2. Vape X
3. (tie) Cloud Pens and CloudV

### BEST GLASS

1. PURE Glass
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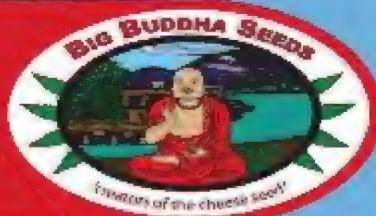
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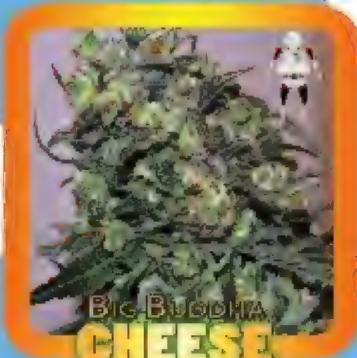
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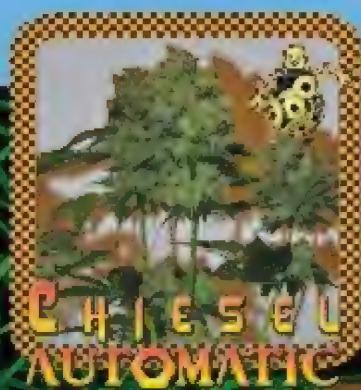
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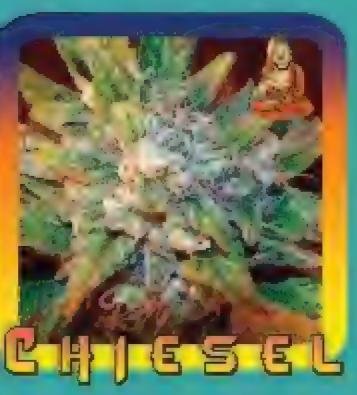
CHEESE



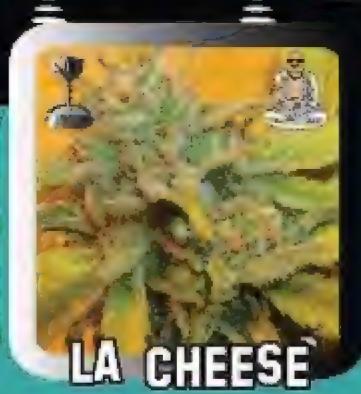
Cheese Dawg



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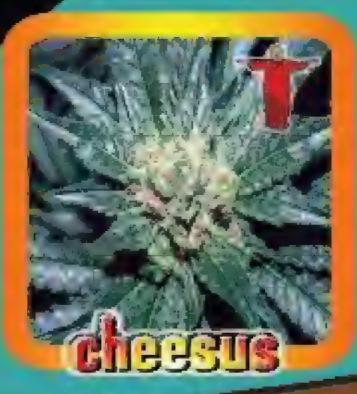
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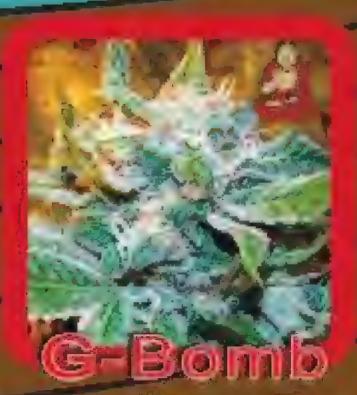
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# Awesome in Austin

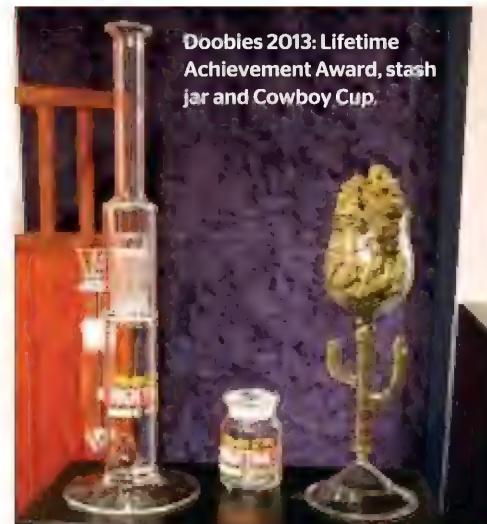
The 2013 Doobie Awards smoke out SXSW. *By Bobby Black*

**With all the** cheap booze and killer concerts at Austin's South by Southwest music festival, one hardly needs an excuse like St. Patrick's Day to get wasted. But when our annual Doobie Awards party happened to coincide with the holiday this year, it was an entirely different green that we were celebrating.

The aptly named Red Eyed Fly was abuzz all day as the capacity crowd lit up and rocked out to this year's seven performers: Aussie indie rockers the Dune Rats, Dallas funksters The Effinays, Austin's avant-garde Interstellar Transmissions, stoner shredders Gypsyhawk, rapper G-Eazy, Canadian metal band Diamonds (featuring sexy former Miss High Times finalist Priya Panda on vocals), and alt-rockers the Memorials (featuring former Mars Volta drummer Thomas Pridgen). Also on hand were celebrity guests Doug Benson, Doobie nominee Styles P, MTV's Chanel West Coast, P-Funk founder George Clinton and the legendary Tony Clifton (of Andy Kaufman fame), whom we presented with our coveted Lifetime Achievement Award in music (for more on Tony, turn to page 110). Awards were given out in 10 other categories as well, including Pot Song of the Year.

Aside from our music awards, we also handed out accolades for Austin's best herb, as judged the previous day at our secret Cowboy Cup party. This year, the winning strain was Girl Scout Cookies, provided by our pals from Hippy Thug.

A huge Texas-sized thank you to all of the sponsors who made this year's Doobies possible: 420 Science, Herbivore Designs, Same Sky Productions, Billy Cannon's Smoke & Ink, Mama P's Herb Grinders, GrowLife Inc., Jamie "the 420 Dude" Balagia, CS Travel, Outgrow Big Bro, Hot Mama's Café, and our good friends in DFW, Austin and San Antonio NORML. Last but not least, special thanks go out to Grav Labs for providing this year's bong trophies. \*



## 2013 DOOBIE AWARD WINNERS

**BEST REGGAE ARTIST**  
**Slightly Stoopid**

**BEST HIP-HOP ARTIST**  
**Styles P**

**BEST ALTERNATIVE / INDIE ARTIST**  
**The Memorials**

**BEST JAM / FOLK ROCK ARTIST**  
**Neil Young & Crazy Horse**

**BEST ROCK ARTIST**  
**Rush**

**BEST STONER ROCK ARTIST**  
**Clutch**

**BEST HEAVY METAL ARTIST**  
**High On Fire**

**BEST NEW / UNDERGROUND ARTIST**  
**TIE: Diamonds & G-Eazy**

**BEST LOCAL ARTIST**  
**Interstellar Transmissions**

**ACTIVIST AWARD**  
**The Effinays**

**POT SONG OF THE YEAR**  
**"Roll It, Light It" - Cypress Hill & Rusko**

**LIFETIME ACHIEVEMENT AWARD**  
**Tony Clifton**

# Happy Birthday, LSD

## Dr. Hofmann's "problem child" turns 70.

The CIA tried to use it as a weapon; self-appointed shamans claim that it brings people closer to God; psychiatrists argue for its therapeutic potential; and ordinary citizens have been dosing themselves for decades simply because they like the high. But 70 years after its invention, we still have a lot to learn about LSD. *By Martin A. Lee*

**T**he last time I saw Dr. Albert Hofmann, the Swiss chemist who invented LSD, he was keynoting to a packed house in a large auditorium in Basel, Switzerland. It was January 2006, and Hofmann had just turned 100 years old. A small, slightly stooped spry man with wisps of white hair, he stood onstage without a cane or walker and spoke to more than 1,000 people at the international symposium being held in his honor. Twentysomethings with multicolored dreadlocks, straitlaced research scientists and psychedelic veterans of the hippie era listened with rapt attention as Hofmann talked about his infamous "problem child," lysergic acid diethylamide 25, the hallucinogenic drug that blew minds and upset societal apple carts when it catalyzed the countercultural rebellion of the 1960s.

"As I look at you today," Hofmann told his audience, "I see you are not my problem child. You are my prodigy."

Thank you, Dr. Hofmann. From problem child to prodigy—what a long, strange trip it's been.

As a young man, Hofmann worked for Sandoz Pharmaceuticals in Basel, where he developed medicinal compounds from plant sources. LSD was the 25th in a series of ergot (rye fungus) derivatives Hofmann had concocted; hence the designation LSD-25. But preliminary studies on lab animals didn't prove significant, and Sandoz scientists soon lost interest in the drug. LSD

sat on a shelf until that fateful afternoon of April 16, 1943, when Hofmann inadvertently absorbed a tiny amount of it through his fingertips and went spiraling through the cosmos. Three days later, he bicycled into eternity after taking 250 micrograms, thinking that such a dose was too small to have an effect.

LSD is odorless, colorless, tasteless and extremely powerful—properties that stoked the interest of American spies and military strategists during the early years of the Cold War. It was problematic from the get-go. The fledgling Central Intelligence Agency enthusiastically embraced LSD as a "potential new agent for unconventional warfare." In the 1950s, CIA operatives actually thought that LSD would revolutionize the cloak-and-dagger trade.

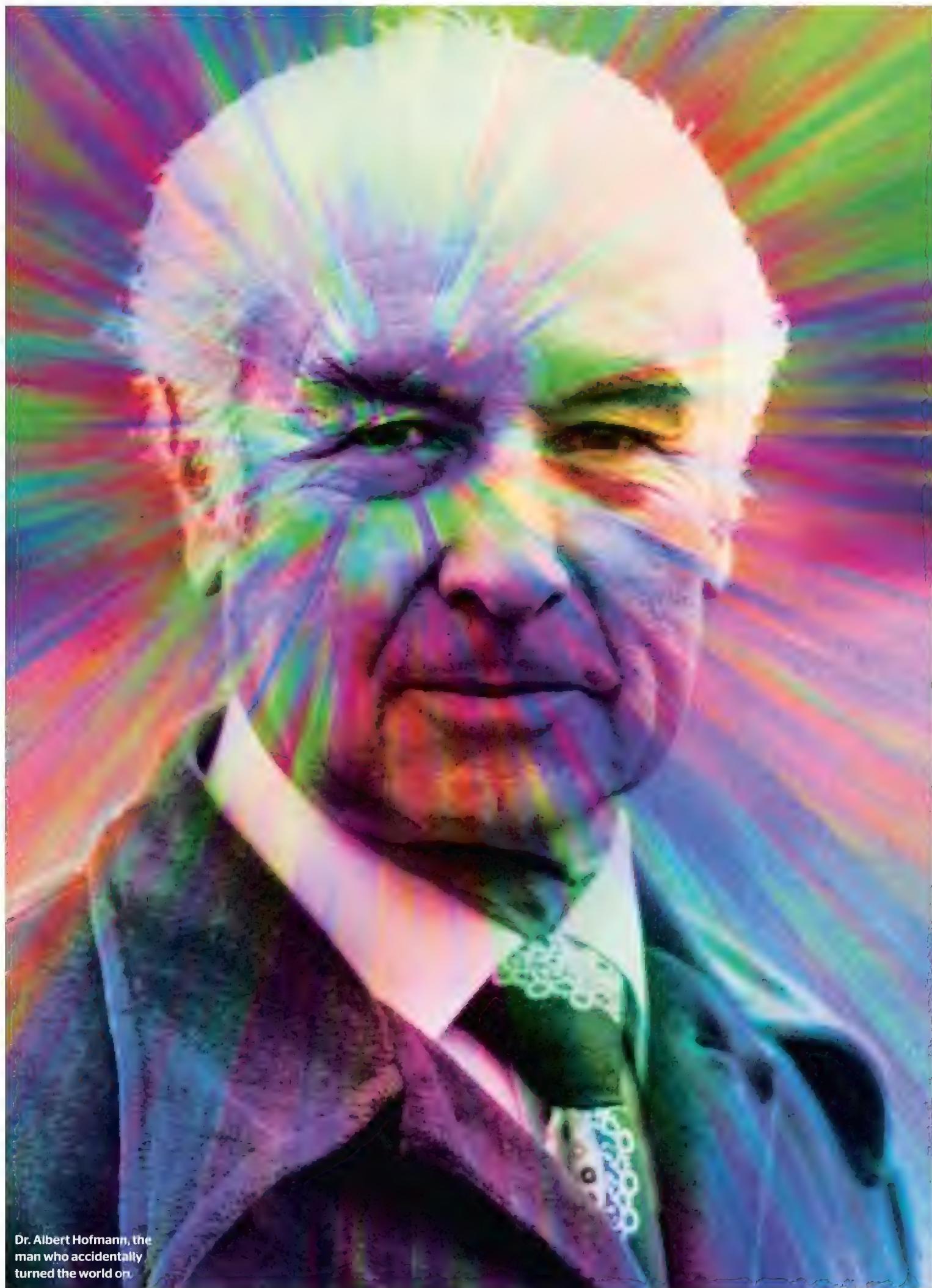
The CIA's space cowboys dropped acid to figure out how to harness the hallucinogen for espionage purposes. "We felt that a firsthand knowledge of the subjective effects of these drugs [was] important to those of us who were involved in the program," a CIA officer later told congressional investigators. Immersed in "a never-never land of 'eyes only' memos and unceasing experimentation," as a once-classified CIA document put it, US interrogators administered surreptitious doses of LSD to disorient people, undermine their will to resist, and elicit information from uncooperative subjects.

US Army brass were equally smitten by the notion of using LSD to wage psychochemical warfare—spray a cloud

of "madness gas" over a big city and you could incapacitate the entire population without killing anyone. Or so they imagined. LSD conjured the prospect of a new kind of weapon that would supposedly usher in an era of "war without death." The US Army Chemical Corps gave LSD to hundreds of American soldiers to assess the drug's disruptive impact on military drills and war games.

Around the same time, many reputable psychiatrists began touting LSD as a promising therapeutic adjunct, a novel healing modality that could help neurotic patients confront and overcome their hang-ups. LSD was well regarded among scientists for its therapeutic potential long before it gained a reputation for recreational abuse. They saw LSD as a potent tool to study how the mind works, a long-awaited chemical key for unlocking the mysteries of brain chemistry and mental illness. A tiny dose of LSD seemed to have an uncanny ability to make the unconscious conscious, to illuminate long-hidden sources of stress by bringing to the surface whatever might be lurking in the mental depths; hence the word *psychedelic*, which literally means "mind-manifesting."

During the 1960s, the therapeutic potential of LSD was projected onto a broad social landscape. Timothy Leary and others trumpeted acid as a cure-all for a sick society, a species catalyst capable of catapulting humanity to the next evolutionary level. The LSD story



Dr. Albert Hofmann, the man who accidentally turned the world on.

morphed into a "Sorcerer's Apprentice" tale as the drug spilled out of the laboratories of the state and into the streets of America and elsewhere. And now that the genie was out of the bottle, it was impossible for the CIA or anyone else to stuff it back in.

Every group that got involved with LSD before it was banned by the US government in 1967—the CIA, the military, the shrinks, the '60s rebels—swooned over the psychedelic. These LSD enthusiasts, representing disparate segments of society, had different ideas about acid and how it could be used to advance their agendas. But they shared something in common: They all saw LSD as the key to the big breakthrough for their respective interests. In each case, the encounter with LSD triggered an envisioning of new possibilities. Whether or not these possibilities would ever be realized is another matter, but the opening, the awakened sense of potential, was real.

For some intrepid trippers, the dazzling immediacy and experiential density of LSD are conducive to deep insight and self-discovery, those seminal lightbulb moments that alter mental constructs and change how we look at things. The phrase "high on LSD" implies rising above the

## The phrase "high on LSD" implies rising above the ordinary and achieving an overarching, big-picture view, a visionary epiphany.

ordinary and achieving an overarching, big-picture view, a visionary epiphany. What was once unimagined suddenly becomes saturated with possibility.

"LSD opened my eyes," said Hofmann. But he didn't consult the psychedelic oracle very often: Over the years, he ingested LSD and psilocybin less than a dozen times. Hofmann lamented the fact that many people dropped acid casually and for mere entertainment. "Those who use it frequently don't understand LSD. They haven't gotten the message of LSD," Hofmann told me when I visited him and Anita, his wife of 67 years, at their scenic mountaintop home near Basel in 2002.

It was a beautiful spring day. Hofmann greeted me at his front door and immediately suggested that we take a walk

outside. "Better to see first, then talk," he asserted. He led me along a wooded path that straddled a sloping meadow festooned with wildflowers. I stopped and stared in awe at the breathtaking panorama. I could see Alsace and the Black Forest in the valley below; the Bavarian Alps loomed in the distance. "This is not an acid dream," Hofmann remarked, pointing to the picturesque landscape.

Hofmann was both a scientist and a nature mystic. He was also a collector. An amateur entomologist, he collected butterflies and rare insects. The most beautiful specimens were photographed, and some of these images were published in a splendid little volume, *Lob des Schauens* [In Praise of Seeing], which he gifted to his friends and associates.

After our outdoor stroll, Hofmann gave me a tour of his library, noting books that were autographed by his literary hero, Ernst Jünger, the conservative revolutionary incendiary who coined the word *psychonaut*. There were also botanical reference guides and titles on arcane subjects, such as hashish tales from the Arab world.

Hofmann showed me a first edition of *Island*, Aldous Huxley's last novel, about a short-lived psychedelic utopia. The

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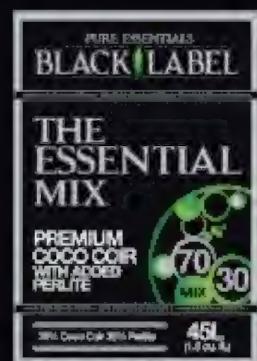
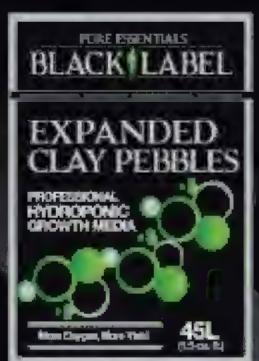
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book had been inscribed by Huxley: "To the inventor of the *moksha* medicine." (*Moksha* is the Sanskrit word for liberation from the cycle of suffering, death and rebirth.) Aldous and his wife Laura were occasional houseguests. "That's where Laura Huxley demonstrated her yoga postures," Hofmann recalled, gesturing toward the rug in the den.

We talked more about literature. Hofmann surmised that Hermann Hesse—the Nobel Prize-winning author of novels like *Steppenwolf*, with its mind-bending "Magic Theater" episode—was among the handful of European intellectuals and artists who'd experimented with mescaline in the 1930s. Hofmann also admired the drug writings of Walter Benjamin, the Jewish philosopher and literary critic who took his own life after fleeing Nazi Germany.

The conversation shifted to climate change, environmental pollution and the relentless corporate defilement of the natural world, topics of great concern to Hofmann. He criticized the US government for obstructing efforts to mitigate global warming and social injustice. "The whole world is against the United States. Why aren't American citizens outraged at their country's militaristic policies?" he asked.

I told him that independent policy

## Albert Hoffman died on his beloved mountaintop in 2008, at 102 years of age.

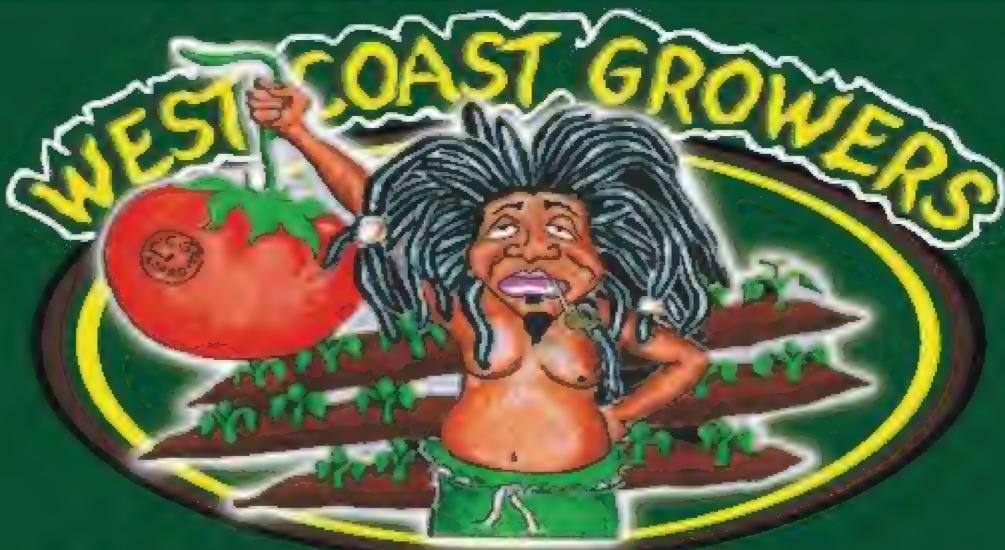
critics are typically marginalized by the mainstream media in the US, and that consequently many Americans are clueless about current events. But we agreed there were some hopeful signs, particularly with respect to the renewed scientific inquiry into psychedelic drugs. Nearly 700 peer-reviewed studies with LSD and other hallucinogens had been conducted prior to 1972; for the next 18 years, however, no human studies with LSD were permitted. The research blockade began to abate in the 1990s, and a handful of investigators in the United States and elsewhere got the green light to experiment with LSD and psilocybin as a treatment for depression, cluster headaches, PTSD, and to help terminally ill individuals come to terms with death.

Humans have ingested hallucinogenic substances since time immemorial, and extensive underground experimentation

will surely persist despite the War on Drugs and the illegal status of LSD. Political constraints are such that efforts to validate psychedelics through medical studies comprise the path of least resistance for LSD advocates. Seventy years after Dr. Hofmann discovered the effects of LSD, scientists are using the drug as a tool to unravel the mysteries of the human brain. For example, a team of Chinese and American scientists has shown that ergotamine, a biochemical precursor of LSD, inhibits migraines by binding to the 5-HT1B serotonin receptor. And Hungarian researchers have linked clinical depression to mutations in a gene that encodes another LSD-sensitive serotonin receptor.

Albert Hofmann died on his beloved mountaintop in 2008, at 102 years of age. He was a rare soul, a man of exceptional dignity. How lucky we are that he, of all people, chanced upon LSD when he did. Or did LSD choose him, as Hofmann himself mused? \*

*Martin A. Lee is the author of several books, including Acid Dreams and, most recently, Smoke Signals: A Social History of Marijuana—Medical, Recreational and Scientific (smokesignalsthebook.com). For more information and regular updates, follow "Smoke Signals—the Book" on Facebook.*



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 Bubba x Skunk  
 Reeferman Skunk  
 Jojo Kush  
 Mad Kush

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Chemo

**\$60**

Sour Diesel  
 Double Skunk x Skunk  
 Pineapple  
 Island Sweet Skunk x Skunk  
 Northern Lights x Skunk  
 Rockstar

**\$70**

G13 x Skunk  
 Maple Kush  
 Moosejaw Madness  
 Blackberry Kush

**\$75**

Zen Hash Plant  
 #1 Love Potion (Next Gen)

**\$80**

Moosejaw x Skunk  
 Double Skunk Harmony x Skunk  
 Original Haze x Skunk

**\$90**

Sour Diesel x Skunk

**\$100**

Kushcicle  
 #1 Harmony  
 Pig OG  
 Bubba Rock  
 Grand Daddy Purple  
 Cherry Bomb x Skunk  
 Golden Temple Kush  
 Mowie Gold x Skunk  
 Thai x Skunk  
 Tuna Kush  
 Afpak  
 G13 Chem Dog

**\$125**

#1 Black Willie  
 Pink Kush

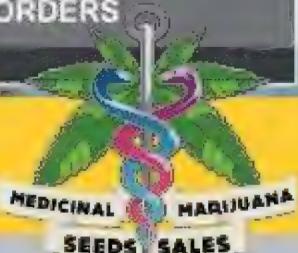
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 Malawi Gols x Thai  
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Marijuana seed producers from the United States have surged ahead of their European counterparts by creating champion pot varieties and winning Cannabis Cups galore. The *High Times* Cultivation Department talked to six leaders in the breeding biz about the current state of the art.

Darkstar from T.H.Seeds shines brightly.



# America's New Can

## T.H.Seeds

Colorado/Amsterdam/Spain

Adam Dunn moved to the Netherlands in 1989 and quickly settled into jobs at both the Hash Museum and the Sensi Seed Bank. After establishing himself as a premier grower and breeder in Amsterdam for several years, Adam founded T.H.Seeds in 1993, in the storefront that he and his partner Doug opened in order to help organize the first High Times Cannabis Cup that would be attended by the general public. That store, Cannabis In Amsterdam (or CIA), eventually evolved into Hemp Works, the city's first hemp store and home of the popular Hemp Hoodlamb line of coats and clothing.

Robert Connell Clark, author of the

books *Marijuana Botany* and *Hashish!*, famously called Hemp Works "the epicenter of the cannabis universe," and it's easy to see why. It's where T.H.Seeds first set the standard for excellent marijuana genetics. Strains such as S.A.G.E. (short for "Sativa Afghani Genetic Equilibrium"), MK-Ultra and HOG proved that quality and quantity weren't mutually exclusive. Newer strains such as Kush-age, Burmese Kush and Sage 'n' Sour continue to dominate marijuana events and gardens worldwide.

Sensing positive change in the cannabis climate back home, Adam decided to return to the US in 2010, settling in Denver and opening up Hoodlab, a store dedicated to the same founding



Adam from T.H.Seeds



done by a vast network of growers. The enterprising pot farmers report back their findings, allowing TGA to refine their genetics for the ever-growing market. Newer varieties such as Chernobyl, Cleaner and The Flav exhibit ridiculous amounts of trichomes that feel greasy with resin to the touch.

Forgoing the determination of many seed banks to cash in on feminized seeds and the auto-flowering craze, TGA produces only regular seeds with increased vigor instead of watered-down varieties with dubious genetic backgrounds. This ensures that you'll get a keeper plant from every pack of seeds bought from their authorized dealers. Also, be sure to check out Subcool's hugely popular "Weed Nerd" videos on YouTube, in which he continues to teach a new generation of growers how to produce the highest-quality cannabis with an eye toward benefitting the medicinal and connoisseur communities.

We asked Sub about the future of TGA, and he replied: "We've added a few new breeders to the team who will be bringing a whole new line of amazing genetics. TGA has over 20 new strains in testing, but we haven't released any data on them. When people ask me when they can expect to see these new strains, I have only one reply: 'They're in testing.' Our small company has become well known, in my opinion, precisely because we take our time and test, test, test before releasing anything new."

"TGA and all of the team are proud of our long relationship with *High Times*, and I personally would like to thank Danny Danko for all of his support over the last 14 years."

Visit [tgagenetics.com](http://tgagenetics.com)

# nabis Kings

principles that he'd put in place in Amsterdam. As T.H.Seeds celebrates 20 years of breeding, they continue to produce some of the highest-quality marijuana genetics in the world, as evidenced by varieties like Wreckage (selected as one of the Top 10 Strains of 2010), Cold Creek Kush (the second-place winner for best *indica* at the High Times Cannabis Cup in 2011), and Sage 'n Sour (one of the Top 10 Strains of 2012).

Adam tells us, "It's been great to be a part of this movement for the last 20 years—and now that it's going global, you can expect to see T.H.Seeds expanding our varieties and horizons for at least the next 20 years."

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## TGA (The Green Avengers), Subcool Seeds

California/Oregon

Formed in 2001 by the master breeder Subcool, TGA Genetics quickly emerged as a force to be reckoned with in the marijuana seed business. Strains such as Jack the Ripper and the Apollo-13 BX took potency, flavor and aroma to a whole new level. Since then, TGA has produced multiple Top 10 Strains of the Year, as well as winning Cannabis Cups with their incredible Vortex (sometimes under different names).

With a focus on the medicinal benefits of their strains, Subcool, MzJill, Dioxide and the TGA gang benefit from a unique system of "open source" seed-testing

***The strong aromas and robust, long-lasting highs are indicative of their origins in Northern California.***

**Electric Purple**  
Lou Scout from  
Lou Seeds tastes  
great and burns  
perfectly.



James from Loud Seeds

## Loud Seeds

California

The American cannabis-breeding collective known as Loud Seeds has been making some serious noise recently with strains that just scream potency. The strong aromas and robust, long-lasting highs are indicative of their origins in Northern California, where the medicinal growers that make up the collective have been honing their skills and refining their genetic masterpieces for many years.

James, one of those breeders as well as the face of the group, named the seed company "Loud" because he wanted the strains to speak for themselves—and boy, do they ever. Loud OG Kush, Woody's Granddaddy Purple and Loud Dementia all exhibit some of the finest qualities of the cannabis varieties from Northern California, but it's their Loud Scout that has truly been raising the roof. A combination of the infamous Bay Area Girl Scout Cookies and Platinum OG, Loud Scout was a surprise winner as best hybrid at the 2012 High Times Cannabis Cup in Amsterdam, immediately putting this up-and-coming collective on the marijuana map.

Still reeling from his Cup win, James tells us: "It was such an honor to win the Cup—a real dream come true. But I don't plan to rest on my laurels just yet. We have a bunch of new stuff we're working on, including putting out quality seed versions of Sour Diesel, Jack Herer and Chemdog. It's so important to improve upon the gene pool by making selections from large populations of plants. And the more legal things get, the larger the samplings we can choose from become. Lab testing is also helping us achieve cleaner and higher-quality medicinal cannabis, and that's always the ultimate goal."

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Scott from Rare Dankness



OG Ghost Train Haze #1 packs a sativa punch.



Don and Aaron of DNA Genetics

## Rare Dankness Seed Company

Colorado

Originating in Colorado, Rare Dankness have accomplished quite a bit in just a short period of time. Although the company was founded back in 2001 (under the name Moonshine's Seeds), it wasn't until 2010 that they rechristened themselves Rare Dankness—and the first time they entered a High Times Cannabis Cup wasn't until 2011 in Amsterdam.

In the two years since, Rare Dankness have taken home two Cups (a first-place win for best *sativa* in Amsterdam in 2011, and a first-place win for best *indica* at the High Times Medical Cannabis Cup in Los Angeles in 2012). They have also made *High Times*' "Strongest Strains on Earth" list twice (currently holding honors for the most potent entry ever tested at a Cup event, at 25.49% THC), and had their Ghost Train Haze named as one of the Top 10 Hazes of all time.

Owner and founder Scott's proudest achievement, however, is the road he traveled to get to this point. "My greatest accomplishment has been continuing to produce seeds while I underwent treatment for cancer," he says. "My passion for this plant intensified, and I became a vocal supporter of its benefits, especially during chemotherapy."

With a new base of seed operations in Valencia, Spain, Scott now splits his time between the two cities he calls home. His release of both the Scott's OG and the Rubburn OG have provided two new potent options for growers, but what's the top seller in his catalog? "That's easy," he jokes: "OG Ghost Train Haze #1—everyone wants the 'Strongest Strain on Earth'!"

So what does the future hold for the Rare Dankness crew? A new project in Amsterdam, clothing lines, more seeds and, very likely, many more awards. As Scott puts it simply, "I just want to see this plant legal and made available to anyone that needs it."

Visit [raredankness.com](http://raredankness.com)

**"My passion for this plant intensified, and I became a vocal supporter of its benefits, especially during chemotherapy."**

## DNA Genetics

California

If you're unsure exactly who DNA Genetics are, you need look no further than their trophy case. Since arriving in Amsterdam (by way of California) circa 2003, founders and owners Don and Aaron (the "D" and "A" in DNA) have steadily changed the strain game by infusing elite US genetics into the Amsterdam weed-and-seed scene.

In the time since their arrival, DNA Genetics have won more awards at High Times Cannabis Cups than any other seed company over the past 10 years, including 20 win, place or show finishes (first, second or third) in the cannabis and hash categories for both their seed company and their affiliated Amsterdam coffeeshops. Recently, DNA have shifted some of their operations back to California—specifically

their elite seed lines released through a subsidiary, Reserva Privada—but have kept their headquarters and storefront shop in Amsterdam.

Still, it's their lineup of US-originated genetics that have put DNA on the map and turned them into the seed magnates they are today. Take, for instance, LA Confidential and Martian Mean Green, two of their earlier championship Cup strains, both of them a cross of old and new genetics—OG LA Affie x Afghani for the LA Confidential, Sharksbreath x G-13 Haze for the Martian Mean Green. Or check out one of their latest winners, the Kosher Kush, a mysterious combination of new "Kosher" genetics (another OG phenol) backcrossed with an original OG Kush.

Look for the continued release of new strains from DNA/Reserva Privada, especially at the High Times Cannabis Cup in Amsterdam this November, where the dynamic duo have a penchant for releasing mouth-watering winners that may very well prove to be repeat champions for years to come. Asked what they've been up to lately, Don tells *High Times*: "We're proud to announce the DNA Limited Collection. What we've done is produce limited amounts of seeds of varieties we're not releasing in mass quantities. These seeds will be in their own specially designed packages and will also be numbered, so you'll know what pack of how many were produced. There will be no more than 2,000 packs of any of these strains ever! The DNA Limited Collection is going to come in feminized as well as regular varieties and will be constantly changing."

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**Kosher Kush**





**HIGH TIMES**  
**TANGIE**



**Bubba Kush**





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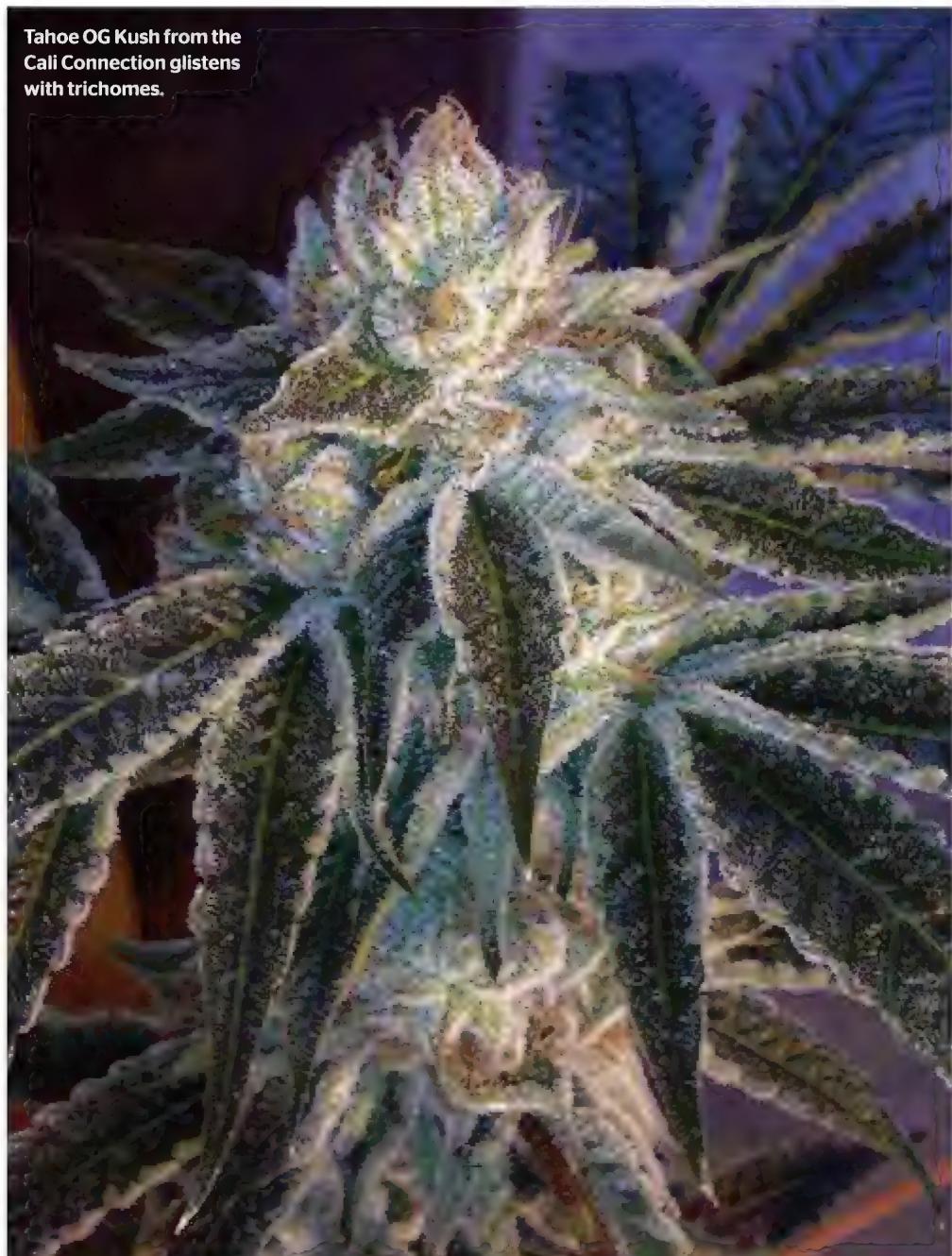
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## The Cali Connection Seed Company

California

Another seed company stalwart with roots in California, the Cali Connection Seed Company have cemented their own place in the Seed Bank Hall of Fame through elite American lineages. As the name suggests, owner and founder Swerve—an excellent grower and breeder in his own right—saw problems in the stagnant Amsterdam gene pool and brought his own mix of top US genetics to the market. By doing so, he quickly vaulted the Cali Connection to the top ranks of the seed industry and has become a “usual suspect” in the High Times Cannabis Cup winners’ circle.

With original hybrid lines such as the Corleone Kush and Blackwater (both of which have the SFV OG as a parent), complemented by popular California varieties like the Tahoe and Deadhead OGs, the Cali Connection have become well known for their strong OG flavors. Just as important is the fact that they’ve routinely been able to take fabled clone-only strains and deliver them in a nearly identical viable seed form.

Though they regularly take home Cannabis Cups in both our US and Amsterdam competitions, the Cali Connection aren’t just about winning; rather, they also support the greater cause by working with breeders and growers throughout the West Coast to identify new strains that can provide the desired effects for stoners and patients alike. Look for new hybrids featuring the Chemdog lineage as well as more of the popular OGs and Sours from the Cali Connection as they aim to make you a seed offer you can’t refuse.

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# Health Canada's stewardship of the country's medical marijuana program has been pathetic. Now the agency wants to reboot the system and make gaining access to good medicine even harder. *Story and photos by Dan Skye*



**“****T**o be governed is to be watched, inspected, spied upon, directed, law-driven, numbered, regulated, enrolled, indoctrinated, preached at, controlled, checked, estimated, valued, censured, commanded, by creatures who have neither the right nor the wisdom nor the virtue to do so.”

Thus spoke the French philosopher and politician Pierre-Joseph Proudhon about 150 years ago. But if the dude were alive today, he could have been describing the obstacles and aggravation

that politicians create for the medical marijuana industry and the patients themselves.

In Colorado, medical growers must account for every gram of the cannabis plant they harvest—leaf, stalk and bud. In Michigan, medical marijuana users are now required to store their pot in the trunk while riding in a motor vehicle. And in California, even as the State Supreme Court takes up the issue of whether cities can ban dispensaries outright, the DEA has ramped up its raids on these establishments. Despite it all, there is the universal feeling throughout

America's cannabis community that our laws are rapidly evolving, and that soon—very soon—we will see pot made legal for adult recreational use everywhere in the country.

Not so in Canada, where there seems to be a genuine regression in cannabis rights. As of September 2012, the Conservative-controlled government of anti-pot Prime Minister Stephen Harper introduced an omnibus crime bill that imposes—for the first time in Canadian history—mandatory minimum sentencing for cannabis production. Anyone caught growing from six to 200 plants

This experimental crop of an *indica* strain (7-2009) bred by MMAR might never see the light of day if Health Canada has its way.



will now receive a mandatory six- to nine-month prison sentence. The bill has stripped away the right of judges to take into account such mitigating factors as marital status, number of dependents, a clean arrest record or the community standing of the defendant when it comes to sentencing.

Medical marijuana was officially recognized in Canada back in 2001. Health Canada, the federal department responsible for health care, was compelled by the Canadian courts to create a program for medical marijuana patients, which included producing cannabis. But Health

Canada's ability to serve the country's medi-pot patients has proven abysmal. Many have had to wait months—some for more than a year—to acquire a license from Health Canada to legally possess medical cannabis. Furthermore, some doctors are cashing in by charging exorbitant fees for recommending marijuana to patients. And people who live in rural areas are often unable to find a licensed caregiver and have been forced to rely on black-market sources.

Adding insult to injury, those who rely on the marijuana that Health Canada produces find it inferior in every regard.

This single strain of unknown origin, which costs \$150 per ounce, is grown in a mineshaft in the province of Manitoba. Water in this area has been tested and found to contain high levels of chemicals from mining operations, all of them toxic to humans. The product is then adulterated by being mulched with leaves and stalks, lowering its THC level to a meager 12.5 percent, as well as a CBD total of 0.5 percent and a CBN total of zero. Equally troubling is the fact that this government strain is treated like an imported potato, passed through radiation to kill any "microbiological attributes."



Ironically, however, Health Canada's bureaucratic bungling has enabled a vibrant industry to take root: Those who did acquire a federal license to grow cannabis have been producing outstanding medical strains, and the patients fortunate enough to hook up with these growers have been more than satisfied with the results. But now the government is seeking to get out of the pot business altogether by revoking those individual licenses and recognizing only a few dozen large commercial growers. This would be a ruinous development for the country's established legal growers—the people who, over the course of nearly a decade, have perfected their medical cannabis strains for use by medi-pot patients.

At last count, there were over 28,000 Canadians who held a license to possess medical marijuana; of that number, more than 18,000 are licensed to grow. Each grower is allowed to provide for two patients, with a maximum of four patients per address (in other words, any individual grower can have a maximum of two patients. So if you're growing for two patients, another individual at the same address can grow for another two, for a total of four patients. If there's a third grower in the house, they have to find another address).

## **Over time, he has devised a formula that allows patients to purchase their medicine for the astoundingly low price of \$30 per ounce.**

The total indoor plant count that is permitted per grower is dependent upon a doctor's recommendation for the individual patient, who is allotted a certain number of grams per day. This translates directly into a plant count, which includes any and all stages of production, from clones to mature plants.

Derek Pedro of Hamilton, Ontario, is one such licensed grower. He received his personal production license in 2003 and started his career as a medical grower in his basement. He's endured 10 years of jumping through bureaucratic hoops to keep his operation legal and up to Health Canada's standards. In 2007, Derek was raided by police—but after nine months, all of the charges were dropped. The experience ended up only strengthening his dedication to medical cannabis: Derek started talking to journalists, retained a lawyer and initiated a civil action against the police department, which overstepped its bounds in arresting him.

Derek has refused to be treated like a criminal. Following his run-in with the law, he decided not only to serve as an

advocate and help those who couldn't—or didn't know how to—defend themselves; he also decided that he would no longer keep his work under wraps. "I wanted to be totally transparent," he says. "I opened up my company, MMAR [Medical Marijuana Alliance Resources], and started expanding rapidly, moving into greenhouses in 2009."

Derek now oversees seven different facilities comprising indoor grows, greenhouses and a seasonal outdoor garden. Over time, he has also devised a formula that allows patients to purchase their medicine for the astoundingly low price of \$30 per ounce, if grown in the greenhouse, or \$90 per ounce, if grown indoors (with the difference largely being due to lighting costs). "They're not actually purchasing cannabis from me," Derek explains. "They're paying for the location's rental, electricity, fertilizer, and the labor and expertise of the designated growers."

Naturally, MMAR has been inundated with requests on a daily basis from patients who would like to use Derek as their designated grower. The waiting



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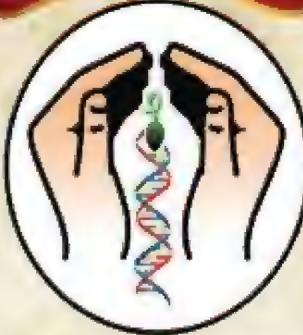
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list has been steadily getting larger, but unfortunately, these patients are told there is very little the company can do.

"We can't grow for everybody," Derek says. "I wish we could. We have to tell them that the government's regulations don't allow us due to the 4:1 patient-to-grower ratio."

Tragically, even this arrangement is set to become a thing of the past, with Health Canada planning to dismantle the nation's entire current medical marijuana program. Essentially, the agency wants out of the pot business, so in its new proposed "Marijuana for Medical Purposes Regulations," Health Canada states that it will no longer receive and process applications, issue authorizations and licenses, or continue to produce and supply marijuana for medical purposes. Instead, Health Canada proposes returning "to its traditional role of regulator rather than producer and service provider, while striking a better balance between access and

risks to public health and safety."

Under these proposed changes, which would take effect in 2014, personal-use production licenses will be eliminated, making it illegal for patients to cultivate their own marijuana. Only commercial producers would be licensed under the new system. The government foresees 50 large growers supplying the entire country, leaving caregivers like Derek to twist in the wind.

Health Canada says it expects to save an average of \$149 million annually by handing the program over to large commercial growers. But the patients end up getting the shaft: Health Canada openly states in its proposed regulations that the current \$1.80-per-gram cost for marijuana (if grown at home by people like Derek) will likely rise to \$8.80 a gram when the program takes effect. So medi-pot patients will collectively be paying an estimated \$166 million *more* per year—and thousands will be unable to afford the higher prices. These people will then be forced

## Growing Simple

Derek Pedro gives some basic tips.



We grow a variety of in-house strains. They're our intellectual property, our blood and sweat. I've been collecting genetics since the '90s. We have 20 proprietary strains and 28 patients who rely on them as their daily medication.

As for soil, we amend it with a lot of sheep manure and aerate it with perlite and soiless mix. This seems to be the best combination. Our indoor fertilizers are custom-ordered in bulk at a substantial savings from Happy Hydroponics of Hamilton, Ontario. This makes it possible for us to grow our greenhouse product at a cost of 30 cents per gram and our indoor at \$1.80 per gram.

Our preferred method of cultivation is in raised beds. We utilize automated watering systems where we can water a thousand plants at our one facility in, literally, minutes.

If you've grown even one plant outdoors, you'll notice that the roots only go in about 10 inches, then start to grow as far away from the center as possible in search of nutrients. By growing in beds indoors, you get much more accelerated growth in the vegetation period. In a bed, you can put the plants into veg within 10 days, whereas if you use pots, it may take two weeks or more. So you save time that way, and your root system spreads throughout the 10- to 12-inch base and extends from one side of the bed to the other. Any nutrients you put into the bed are picked up by all of the plants; this promotes root growth. You do have some dry spots here and there, but so does nature.

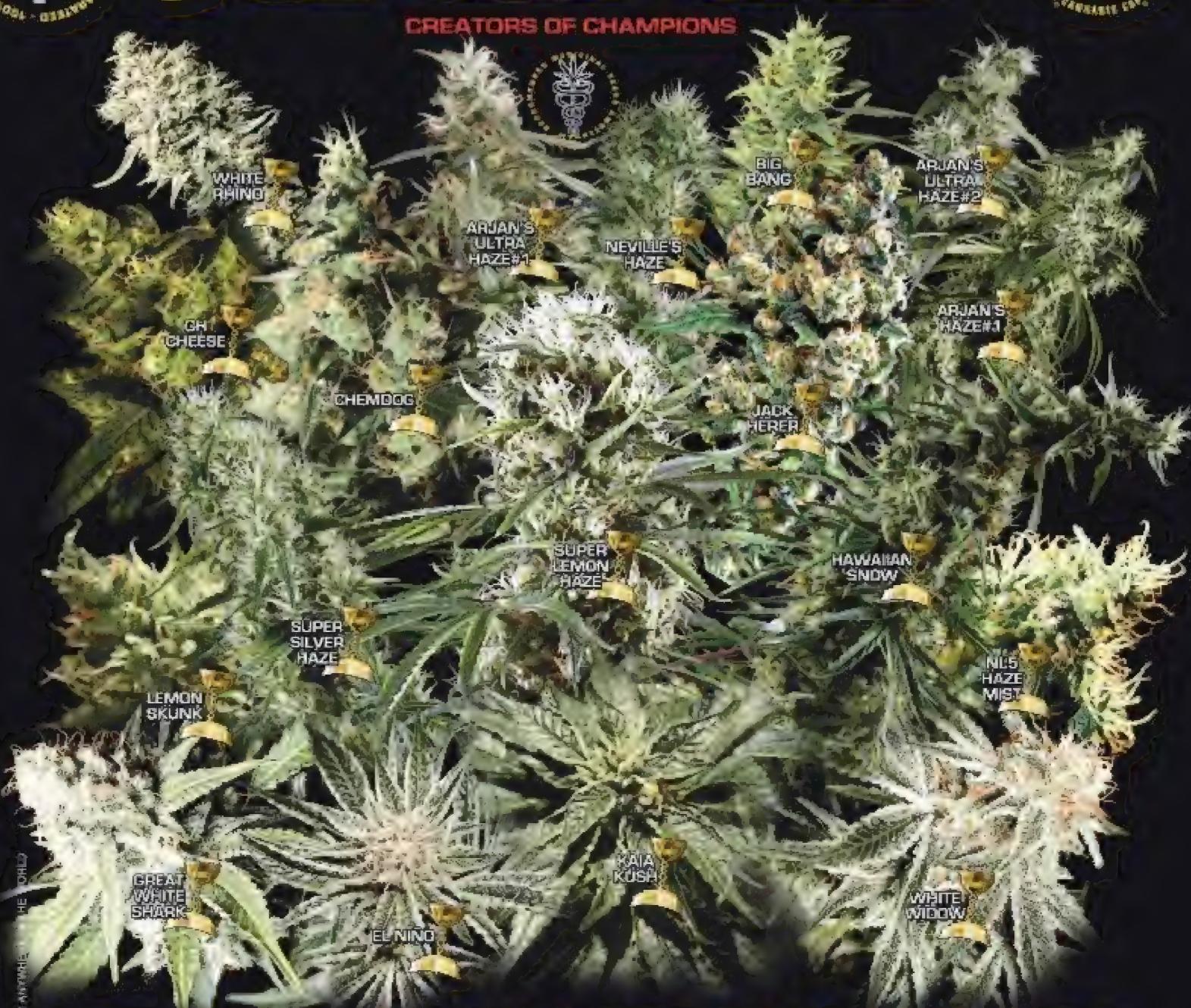
Plants veg for 10 days in the beds and then are harvested at 3 to 4 feet, depending on the strain. Each raised bed has a drain hole every 18 inches; they're interconnected and run into the sewer. This makes it possible to flush each bed thoroughly, but this method is only possible if you have access to a basement. All soil from the beds is then transported out to the greenhouse farm, where it sits in a field for a year. The rain and snow can return the soil to a useable state, meaning it can be recycled for use in outdoor and greenhouse gardens.

It took me 10 years to find honest, knowledgeable, caring growers such as Curtis Wallace and Gary Shapiro. Through many years of trial and tribulation, we have perfected the art of large-scale medicinal growing.

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to buy on the black market, or to return to pharmaceuticals, or to risk growing illegally and being found guilty under the new mandatory minimum regime.

Derek doesn't like to think about the impact that the new program would have on him. If it's approved, the hundreds of thousands of dollars he has invested (and, more importantly, *borrowed*) to make MMAR a top-flight medical cannabis provider will go down the drain. He currently has a 110-light facility approved by Canada's Electrical Safety Authority, with a total of 7,000 square feet of growing space. The municipal police have done walkthroughs of it twice, and their opinions have only been favorable.

"It's amazing that our government can have such disregard for patients and businesses," Derek says. "We have worked hard to build ourselves into a responsible, economically viable entity and have followed Health Canada's guidelines to the letter. And now, because Health Canada has mismanaged the program from the get-go, we patients and caregivers are the ones who stand to be penalized."

But Canadians are fighting back. A coalition has formed to address the problems created by the proposed regulations. Led by activist Jason Wilcox



MMAR uses pounds of trim for edibles.

and attorney John Conroy, a veteran marijuana-law defense lawyer and civil-liberties expert, the MMAR DPL/PPL Coalition Against Repeal has over 3,400 members across Canada working to keep the current program in place, prevent the new regulations from becoming law and, if

that worst-case scenario does happen, file a class-action lawsuit against the government. (Personal-production and patient-designated producers—current and future—are encouraged to fill out an impact statement on the coalition's website.)

"This is my life's work," Derek says. "This is it. First and foremost, I'm an advocate, and I want to make sure we continue this. I have a conscience, but I want this to be very clear: If by some chance John Conroy fails and we can't get an injunction to stop this, I'll try to get a commercial license—because I have no choice. I can't give up on the one thing I am most passionate about."

In other words, if he can't beat them, he'll have to join them. "If I have to go to court to get one, then I will," Derek says. "Thank God we have a Constitution, because no judge can agree that patients who have been forced to suspend treatment because of the cost of their medicine—and who have suffered because of it—is a good thing. In the end, I still want to offer the best quality at the cheapest price." ♣

See MMAR's massive greenhouse.  
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# ***The Art & Science of Cleaning Concentrates***

## **Part 2: Organic Budder**

In this second part of our exclusive concentrate series, we bring you the Budderking's recipe for creating clean, butane-free concentrates.

*By K. of Trichome Technologies & Mel Frank. Photos by Budderking*



**T**his procedure, which we will refer to here as "Method II," comes directly from the Budderking himself. For many years, Budderking has produced some of the world's most amazing concentrates (a.k.a. botanical drug substances or BDS). In fact, he coined the word *budder*, and had been making it long before most people even knew it could exist in such a pure, flavorful form. Now, given the increasing popularity of concentrates, Budderking has generously decided to reveal his methods so that we can share them with

the world at large. When he first created budder, it was a revolutionary step, since it's a completely organic method of extraction that yields a very potent product. Many others have performed the same extraction process, but Budderking was the first and deserves due credit. Here, his process is simply scaled up and refined for efficiency purposes.

Basically, Budderking's method is an organic *ethanol alcohol wash*, performed very quickly so that minimal contaminant (chlorophyll) is dissolved into the extract, which can turn the fluid green and not golden as desired. Almost all of

the information in this article came from Budderking himself, and the only thing he requested in return was that we ask Pete Brady to contact him, since Pete performed some of the original budder experiments with him and wrote articles about the result.

For Method II, the frozen buds must first be removed from their stems and allowed to sit out until dry—*very* dry, crispy dry (as Budderking puts it, "Dry as a bone"). All of the gear needed for the first step in this process is common kitchenware: a sieve or large strainer, two large coffee filters, and a container

large enough to catch the filtered fluid.

This first step is best done in a freezer. Suspend the two coffee filters (fitted into each other) over the top of the container and fill them three-quarters full with dried, slightly broken-up buds. Next, use 190-proof organic grape spirits (from [organicalcohol.com](http://organicalcohol.com)), which should have been stored in the freezer. This organic grape alcohol is the purest and finest we've seen, and it has a sweet nectar smell with very little essence of alcohol.

This process requires two and a half gallons of alcohol per pound of cannabis. While the container is still in the freezer, pour the alcohol over the top of the buds, making sure to cover them completely. Pour it fairly rapidly until the coffee filters are filled and then close the freezer door. After about five minutes, open the door and repeat the wash process by pouring alcohol over the buds and then closing the door. Repeat this process five times. After five washes, the quality will rapidly diminish and chlorophyll and other unwanted contaminates will begin to darken the fluid.

Throughout the extraction process, everything should be kept at or below freezing—but if that isn't possible, everything must be kept at a *maximum* of 65°F; warmer than that and excessive contaminates wash from the buds and pass through the filters. If you prefer, you can separate all five washes into separate containers to get five grades of quality (the first being the best, the second being second-best and so on).

The collected alcohol/concentrate solution then needs to be evaporated. Pour the solution into an 11" x 15" aluminum pan or glass dish lined with parchment paper. Place the dish in front of a fan in a well-ventilated area with *absolutely no ignition source*, as evaporated alcohol is *very flammable and unhealthy to breathe*; for these reasons, we always advise doing the evaporation outdoors in shade. Place washable plastic filters (the kind used for in-window air-conditioners) over the dish to prevent unwanted dust, insects and debris from settling on your solution. A double boiler can be used to speed up the evaporation process, but *never* heat the water to boiling or exceed a temperature of 200°F, and never exceed a temperature of 120°F in the evaporating solution. Also, don't try to rush things by heating indoors: A downdraft fan can speed up the evaporation as well.



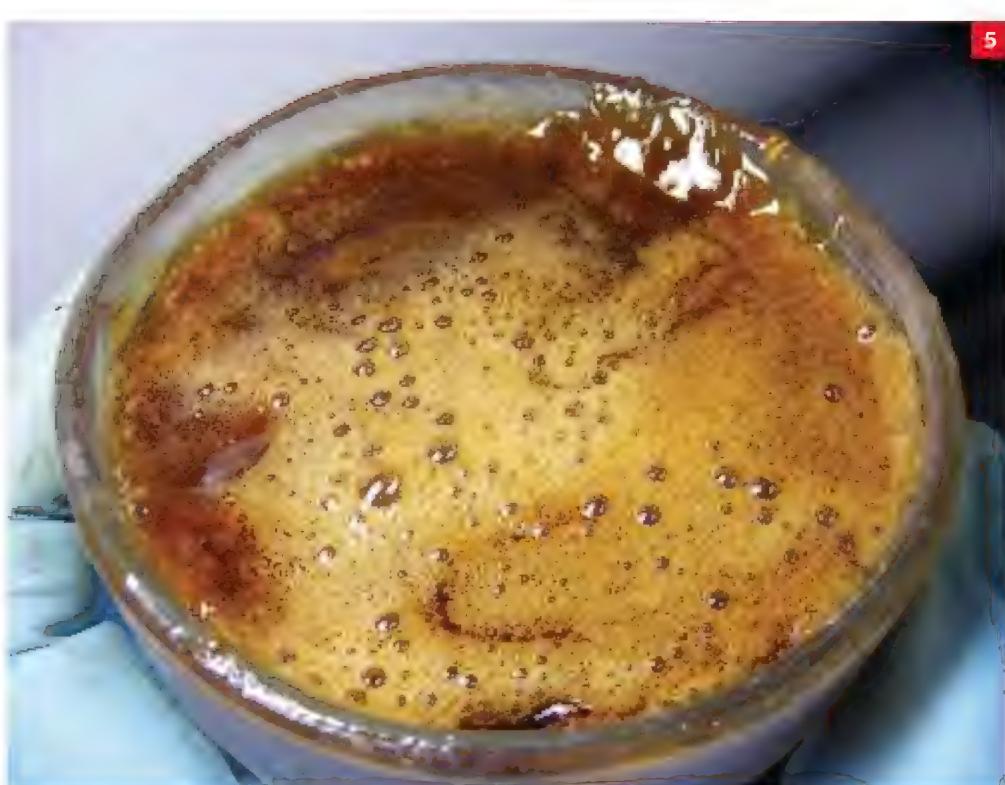
1. After extraction, the solution is a tincture containing cannabinoids (THC) and terpenes dissolved in the alcohol. From here, winterize or begin evaporation.

2. Pour the solution into a glass dish or onto parchment paper for evaporation. The dish can be steam-heated or fans used to expedite evaporation.

3. Steam heat beneath the dish hastens evaporation. Never use an open flame.

4. Evaporation is complete when the concentrate hardens and can be scraped together. Be patient, as it will take much longer to whip into bud if not completely evaporated.

5. After scraping together, the concentrate will be somewhat fluid if still warm. If not, warm on a hotplate to prepare for whipping.



To evaporate large quantities of concentrate, you can use a 4' x 4' or 4' x 8' grow tray partially filled with water and then circulate the water through an on-demand water heater (available at any hardware store). *The water heater must be kept a minimum of 50 feet away from the evaporation dish to prevent fires.* Multiple dishes can then be placed in hot water all at once to accelerate processing large quantities. Wait for a complete evaporation of the alcohol with only a slight amount of water left, which will sit on top of the concentrate. But you must have complete evaporation, so continue fan-drying until all of the residual water is gone. When applying heat, never do so for too long or use excessively high heat or you will not get budder. At the same time, too short a heating process or under-evaporating will also result in poor quality product. It takes effort and experience to develop a successful routine, but patience is always the safest policy.

So, once again, let the solution sit and evaporate on low heat. Excessive heat will remove the volatile essential oils responsible for the flavors and fragrances of the concentrate. If the color of the fluid or product begins to darken, the heat is too high. Lower temperatures work best: 113°F seems optimal (and to repeat, do not heat above 120°F). When complete evaporation is achieved, the layer of concentrate on the parchment paper will be sticky or tacky; if it's oily or runny, the evaporation is not complete.

Once the concentrate is sticky or tacky, place it on parchment paper into the vacuum drying oven. The apparatus I recommend for this step is the Model V vacuum drying oven from [acrossinternational.com](http://acrossinternational.com), along with the vacuum pump/cold trap and bellows available in the K-package from [vacuumpumpsupply.com](http://vacuumpumpsupply.com). The vacuum in the chamber is reduced to 8 millitorr, and the oven temperature is brought up to 50°C on the oven readout. The cold trap is utilized to catch any alcohol and water that would otherwise contaminate the pump oil and weaken the vacuum pull (and possibly rust the inside of the vacuum pump, ultimately leading to failure). You can place either liquid nitrogen into the top chamber of the cold trap or dry ice into the bottom chamber, or utilize both chambers to ensure that any remaining alcohol and moisture is caught. After pulling an 8 millitorr vacuum at 50°C, the degassing and drying is complete.



## Making Budder

Extract artists like Budderking prefer the texture of a concrete/budder over an absolute/glass (for a discussion of these terms, see Part 1 of this article in July '13). But whether you make absolute/glass using Method I or Method II, a form of budder can be achieved from either by whipping the result.

For small batches, Budderking evaporates the solvent in a glass dish using hot water and air movement. After evaporation, he scrapes the concentrate into a mass and dries it by placing the dish into a convection oven pre-warmed to 160°F. After 15 minutes, he removes the dish to cool for about an hour at room temperature. He scrapes the cooled concentrate from the dish using large, properly cleaned razor blades and collects the concentrate into one mass. If the concentrate is dried onto parchment paper in a vacuum drying oven, the paper is folded so that the concentrate sticks to itself and then pulled from the paper to form one large mass.

After drying (using either method), place the mass of concentrate into a glass bowl. Budderking's procedure for whipping is as follows: First, he places the glass bowl with its concentrate mass into a convection oven pre-warmed to 160°F for 15 minutes. After removing it and allowing it to cool to the point where it's just warm, he starts whipping. He wraps a lint-free towel around a handheld drill to keep debris from the drill's motor brushes from dropping into the concentrate. Then he replaces the drill bit with a round-tipped dental spatula and whips the warm concentrate thoroughly by running the drill for 10 to 15 minutes. The concentrate slowly becomes lighter in color and eventually turns blond/semi-white, hardening as it cools. He continues this rapid stirring until the concentrate becomes drier and

**6. Use a drill fitted with a dental spatula at high speed to make whipping easy and thorough. Periodically warm on the hot plate while whipping, but do not overheat. If comfortable in your hand, it is not overheated.**

**7. It takes time to become budder, but color and consistency will slowly change; be patient and repeatedly warm and stir thoroughly and evenly.**

**8. Color becomes lighter and consistency becomes thicker during whipping. Be careful with the drill not to fling concentrate everywhere.**

**9. Properly whipped budder is near blond before drying. Once it cools a little and thickens, it must be transferred to another container for drying and easier collection.**

**10. Undried budder should be thick, not runny. Drying is done on parchment paper in a vacuum drying oven or in silicone baking dishes as Budderking does.**

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From left: The easiest and simplest drying and collection of large quantities is done in silicone muffin dishes; these dishes cool quickly and, to process large quantities, can be cooled even quicker in a freezer for faster reusing.

less sticky. It is then placed briefly back into the pre-warmed convection oven, again at 160°F, but only for three to five minutes before removing.

When allowed to cool, the concentrate will dry to budder. If the concentrate fails to become budder, you can always try the process again—reheat, whip and cool—to see if it dries, hardens and becomes lighter, with a color that resembles butter. (If it doesn't, you may have overheated or burned the concentrate; it will darken, and the result will not be budder.) The whipping can also be done in silicone dishes for easier collection. After the reheating and final

drying, you should place the concentrate into a freezer to cool for easier collection. (It will not stick to the silicone dishes.)

The biggest factors that will determine the final color of the concentrate are as follows:

*Harvest times.* Harvesting cannabis on the early side makes for lighter shades of concentrate, while older, later-harvested cannabis results in darker ones.

*Heat.* Overheating the concentrate (either for too long or at excessive temps) will darken and weaken the final product.

*Light.* Cannabis exposed to excessive light will produce darker concentrate. Always manicure buds under artificial

light (or in shade—not sunlight) and dry them in darkness. Light will degrade cannabinoids and terpenes, and the result is a less potent and darker-colored concentrate. Indeed, GW Pharmaceuticals recommends exposing cannabis only to amber light after harvest, since amber light will not darken or oxidize the trichome contents. Therefore, the recommended method is to make concentrates only under amber or subdued light.

*Age.* The older the cannabis is, the darker the concentrate will be. To slow down aging, fresh-freeze cannabis using dry nitrogen gas to replace the oxygen in the storage containers.

As mentioned earlier, the timing of the harvest is important. For example, monitoring THC accumulation in the buds from a single plant, we found that the THC increased from 12% to more than 20% over a three-week period, followed by a plateau for another two weeks before it slowly began to diminish.

Also, the longer cannabinoids stay in the suspension fluid, the darker the fluid will become, and the darker your concentrate will be as a result. So always remove the concentrate from the fluid as soon as possible.

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## Suggestions Worth a Further Look by Professionals

- 1.) *Lyophilization* allows you to freeze-dry the extract instead of adding heat during drying; this is freeze-drying under vacuum.
- 2.) *Sublimation* (a.k.a. *phase transition*) is the transition of a substance from an absolute phase to a gaseous phase without passing through an intermediate liquid phase. This process might be used to capture specific cannabinoids and essential oils on a *cold finger*.
- 3.) *Fractionation* (or *fractional distillation*) is the process of separating mixtures of liquids and gasses by utilizing differences in boiling points. Used with *rotovaporization*, this process could allow for the separation of terpenoids from cannabinoids.
- 4.) *Steam distillation*, a type of separation process for temperature-sensitive materials, could be useful in capturing aromatic cannabis compounds.



All of the processes mentioned above merit a serious look by professional extract artists, since they might enable us to separate beneficial compounds such as pure THCA, THCV, CBD, etc., allowing further investigation into the beneficial effects of each. This is science, not "blast-ing from a can."

## In Conclusion

In order to secure and preserve its legitimacy, the concentrate industry must learn to self-regulate, educate its practitioners, and promote safe means of manufacturing as well as healthy means of ingestion. The industry has entered a stage in which marijuana concentrates are becoming increasingly popular for both medicinal and recreational purposes. We can make pure products with very specific and exacting percentages of specific cannabinoids only through collaborations with reliable professional labs. But if careless fools keep blowing up their houses, the industry as a whole will suffer—and our fear is that, as legalization progresses, concentrate manufacturers and consumers will experience a backlash caused by sensational media hype, possibly even leading to laws prohibiting all concentrate manufacturing and consumption.

And we don't want that to happen, because all of us would lose. \*

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by MARY OUGHT SIX  
photos by KATY WINN

# ADRIAN GRENIER

## THE HIGH TIMES INTERVIEW

**B**EST KNOWN FOR HIS ROLE AS VINCENT CHASE, THE LAIDBACK HEARTTHROB MOVIE STAR AT THE CENTER OF HBO's HIT SERIES *ENTOURAGE*, ADRIAN GRENIER IS ALSO AN ACTIVE, MULTI-INSTRUMENT-ROCKING MUSICIAN, A PART-TIME BROOKLYN-BASED BAND PROMOTER AND AN AVID ENVIRONMENTALIST. ADDITIONALLY, HE PRODUCES DOCUMENTARY MOVIES—AND HIS LATEST, *HOW TO MAKE MONEY SELLING DRUGS*, DIRECTED BY OSCAR-NOMINATED FILMMAKER MATTHEW COOKE, SOUNDS LIKE IT JUST MIGHT BE UP *HT*'S ALLEY, RIGHT?

THE FILM IS A WIDE-RANGING ROMP THROUGH THE RANKS OF DRUG-LORDING, COVERING THE ROLE THAT PARTY SUPPLIERS, CORNER DEALERS AND MIDDLEMEN PLAY AS WELL AS THE KINGPINS AND CARTELS. IT FEATURES ADVICE FROM PLAYERS WHO KNOW THE GAME PERHAPS A BIT TOO WELL AND INCLUDES A SIMPLE 10-STEP PLAN ON HOW TO GROW YOUR OWN ILLEGAL BUSINESS FROM THE GROUND UP IN A TOUGH ECONOMY. THE DOC ALSO FEATURES SOME FAMILIAR SHOW-BIZ NAMES, INCLUDING 50 CENT (WHO OPENS UP ABOUT SLINGING AS A KID), WOODY HARRELSON, EMINEM AND SUSAN SARANDON.

BUT ADRIAN'S NOT ACTUALLY OUT TO PROMOTE CANNABIS CULTURE OR DRUG USE. INSTEAD, HE'S HERE TO OFFER *HIGH TIMES* HIS PERSPECTIVE ON THE IMPORTANCE OF "BALANCE."

**The title of your film may mislead some people. What would you like audiences to take away from a movie called *How to Make Money Selling Drugs*?**

At the end of the day, what we're trying to bring attention to is how the War on Drugs has utterly failed, and how it's being maintained for the wrong reasons. Its premise is to protect us from drug abuse and the violence associated with drug dealing, but the reality is that it does none of those things. So I don't want to give it all away, but cut to the end of the movie and that's pretty much the lesson that you learn.

**The documentary offers a very balanced, even humorous window into what selling drugs truly entails.**

Matthew [Cooke] and all of us behind the film are not bleeding hearts; we're people who understand the language of other young people, and how much people in general have indulged in the sensational media around the Drug War, like the romanticization of drug dealers through film. I think on some level we're highlighting that.

**How so?**

We're demonstrating, we're building upon, the sensationalism that we've grown accustomed to: on the one hand, the romanticization of dealing drugs—Tony Montana [from *Scarface*], or drug use generally—juxtaposed with this War on Drugs and the distinctive assumption of drugs being bad or evil that has been fed to us through the War

on Drugs propaganda machine. And that takes us to the film: It provides a nice balance—it reflects a collective feeling on the issue.

**Were you involved with the film from the ground up?**

Yeah, even *before* that. I remember, the first time I met Matthew—the first time we ever hung out—I was at his house, and he had an idea board. On the idea board, there was one card with the title "How to Make Money Selling Drugs." Of all the things he had up there, that was the one that caught my eye.

I asked him about it, and he told me he wanted to make a film about how costly the War on Drugs is, and the irony of how you never actually make any money on the War on Drugs, how you lose out entirely instead. I said, "That's an amazing story to tell—and that's an amazing title, because it's going to catch people's attention."

**You have legalization advocates like Woody Harrelson and 50 Cent on board. You also have some surprising names, like Susan Sarandon, who made very poignant points.**

This is definitely a fun film, but it has also serious information and some very poignant lessons. I think we can have the best of both worlds: We can sit for two hours and not be preached to; we can enjoy a film that isn't just finger-wagging and learn about the perils of the Drug War, as well as have some lighthearted moments to keep it paced right.



**In the past, you've said that documentaries are the most vital and important form of filmmaking.**

I think films are supposed to reflect something of the human condition; they're supposed to inspire and give us an opportunity to look at who we are, an opportunity to engage more fully with life and community—and also, on some level, to give us a bit of leadership and purpose. So while film *can* do that because there's that fictional element, I think maybe there's too much of a division between the audience and the storytelling. I think that, often, people just miss it.

With documentaries, because they're based in reality and have real people with real stories telling them firsthand and in the first person, it sort of breaks down that wall—it gives important information that can be very helpful for an audience paying attention. The only problem is that a lot of documentaries don't get the attention they deserve, because I think people perceive them as being homework or as being a chore to watch. So our job as filmmakers is to find a way to break that illusion and provide films that can work on all different levels—not just an entertainment level, but also on an important educational level.

**After having made this film and educated yourself more about the War on Drugs, do you think that the legalization of marijuana would have an impact on it?**

There is no War on Drugs if they're legal. If you have to demonize drugs and their users in order to justify a war against them, it's just .... If you talk to people, they fear talking honestly about the subject. Public figures fear speaking about the injustices of the War on Drugs. It just goes to show the wholehearted brainwashing that's occurred because of



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## “It’s very important to have an honest and realistic conversation about drugs.”

the War on Drugs propaganda machine.

**Did you run into these problems while making the film?**

I had a lot of work to do in order to get people to talk about it. I had to do some soul-searching myself, being in the public eye, and figure out how I was able, in good conscience, to speak out or speak up honestly about the *real* conversation behind all of this. It's so easy to protect yourself behind the status quo and not go up against what everybody has come to believe as being so absolutely factual—which is that “drugs” equals “evil” or “bad.” When you scratch just slightly below the surface and start to have that *other* conversation, you realize it's a lot more complicated than that. But the only way to protect people from the pitfalls of drug abuse and the violence of

the drug industry is by having that other conversation—the difficult conversation about what's *really* the most effective way of protecting people from drug abuse and drug addiction.

**Your mother and father met in a commune. Does that equate to being raised in a more drug-friendly environment, and therefore having a more open dialogue about drug use?**

Don't believe all the propaganda—including Wikipedia! It wasn't a commune; it was called the Pumpkin Hollow Farm. It was a theosophical society. It was like a camp, I guess, for the exploration of mysticism, the occult, spiritual practices and philosophies. So it wasn't a commune per se. I can't say there wasn't commune-like activity taking place—but I wasn't there, so I don't know.

**Right. Still, spiritual exploration could certainly translate into psychedelic use—or marijuana use.**

Look, it was the 1960s. I think in the '60s, there was maybe a very naïve opinion of drugs, a sense that you could do them indefinitely all day long and everything's free and there are no limitations to life, sexually or otherwise. And we all know what happened there: People had a cold blast of reality and realized that life doesn't work that way. Life is a balance, and you can't just be indiscriminate or go totally off the deep end.

**So your home life must have been pretty balanced, then.**

I know that when my mom talks to me about drugs now, she says, “Look, we all explored and experimented, and it's not entirely bad—but it's also not entirely good.” There is such a thing as addiction and drug abuse, and a lot of times, deaths are associated with those abuses; families are broken up. I have family members who are alcoholics and drug addicts, and I'll tell you, it's not a pretty story. It's a scary story, an unfortunate story.

So it's very important to have an honest and realistic conversation about drugs, and that doesn't just include railing against the violence created by the War on Drugs and perpetrated by our government. We have to have that really heartfelt conversation about the violence that drug addiction can bring to a person, their family and their community. We have to have a holistic, meaningful exploration collectively, on a national level, about how we're going to make sure that we can, first, overcome the War on Drugs, which is distracting from the real issues at hand, and second, put in the effort of addressing those real issues, which are still there regardless of the War on Drugs.



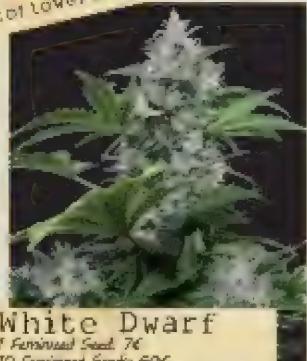
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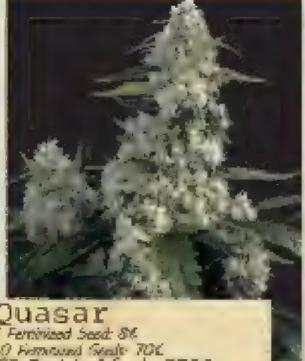
**Purple Kush**  
1 Feminized Seed: 7€  
10 Feminized Seeds: 60€  
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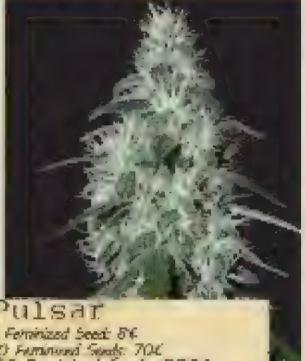
**Assorted Auto**  
10 Feminized Seeds: 35€  
50 Feminized Seeds: 145€

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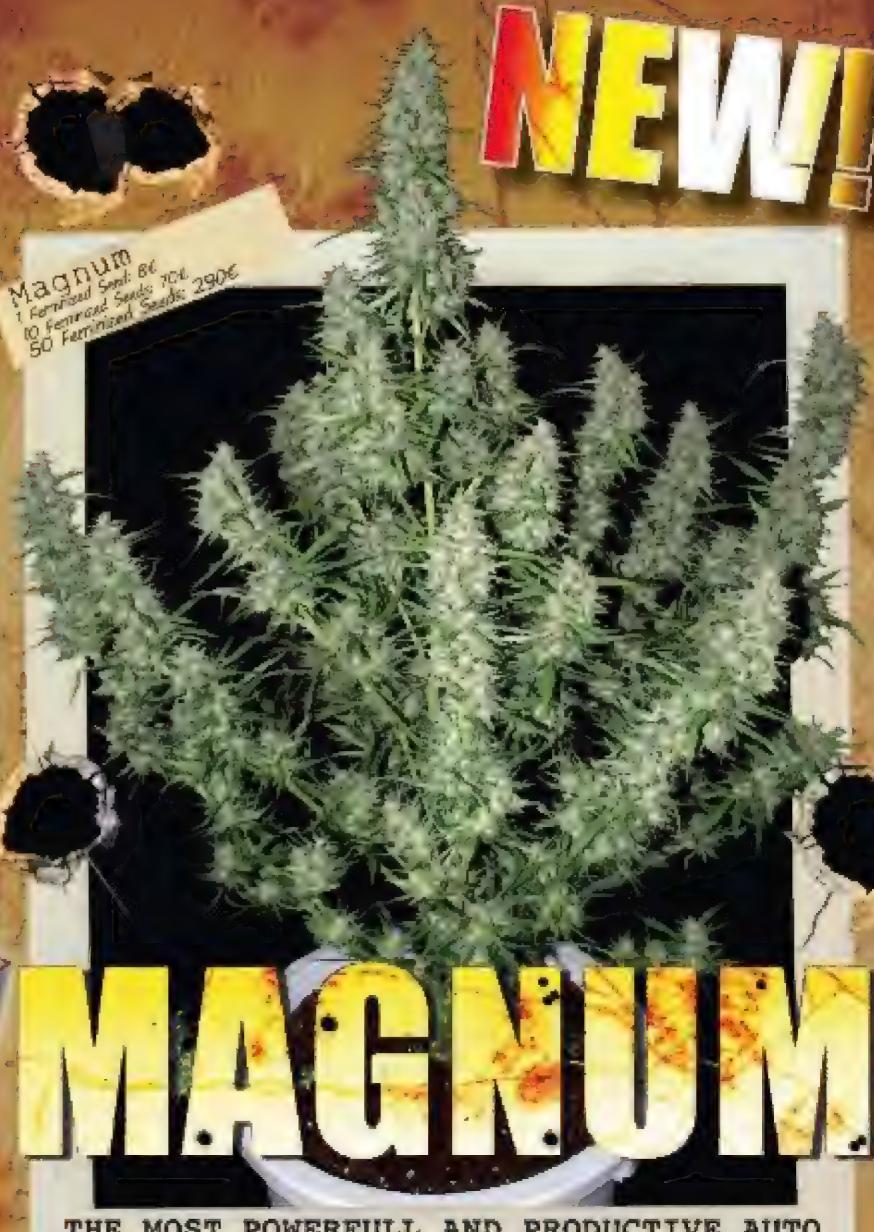


**Quasar**  
1 Feminized Seed: 8€  
10 Feminized Seeds: 70€  
50 Feminized Seeds: 290€

Autoflowering

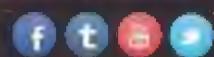


**Pulsar**  
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### How do you view drugs?

I think that drugs certainly have their place, and they can be very useful—not only medically but socially, on some level. And they certainly can play an important role in one's growth as a human being. Of course, balance is the key to everything in life—and that includes psychotropic drugs, mind-altering drugs, but also drugs that don't provide that same effect.

### Like over-the-counter meds?

I think we need to look at the entire spectrum of how we use and utilize drugs in this country. Everyone is different, so everything needs to be dealt with in its own way—and that includes individual human beings. Not every drug addict is built the same way, just as not everybody who smokes a joint is smoking for the same reasons. So I think that as we become more sophisticated in how we deal with the issue of drugs, we can become more nuanced in how we address the individual case by case. Because a broad, violent approach called the *War on Drugs* is like trying to kill a mosquito with an atom bomb.

### Do you smoke marijuana?

I honestly have ... on occasion, I have enjoyed a little marijuana.

Listen, I don't want to advocate or become a poster boy for smoking pot—although one might argue that I already am by my role on *Entourage*. I certainly want to be very, very clear that I'm not *advocating* the use of marijuana.

### How about "condoning"?

Like alcohol, it has to be used responsibly—and, again like alcohol, one needs to make sure that young people develop their minds fully before utilizing drugs. I'm sure that you guys at *High Times* are very conscientious about the responsibility that you have—not just as in asking "Why are we advocating?", but also as in having a balanced approach to responsibility.

### Eminem and a couple of other people in the film spoke about prescription drugs and their addiction to them. Do you see cartel-like behavior from some of these pharmaceutical companies?

It's a problem, and it's been totally condoned and advocated by the legal drug industry. That's why I don't think out-and-out legalization is an answer; drugs have to be respected and appreciated. Blind promotion and usage is a

problem—particularly with prescription pills, because they don't have that stigma. And because doctors condone their use, it's easy to hide. So yeah, it's a huge problem—especially when you get young kids addicted early. It's a very scary problem.

### Do you have any personal experience with the problem?

I'm very lucky that, as open-minded as my mother was, when the doctor wanted to prescribe me ADHD medicine—I guess I was at that age when I was moody and thirteen, going through puberty, whatever—my mother rejected it. And I'm so thankful she did, because who knows what would have happened had she gone along with that program? I'm happy to say that I've never done *any* prescription pills—not even recreationally, not even just to try them. I've never been into doing pills generally. I think they scare me in a lot of ways because they're synthetic, because they're man-made. I guess I look upon them with a little caution.

### As an Obama supporter, do you think that his administration has taken positive steps to put a dent in the War on Drugs?

Well, he admitted he inhaled—that's a step. Seriously, I think it's ridiculous that people can't even admit that much.

### The movie covers the unfair and disproportionate prison sentences for blacks and Latinos. How do we change that?

It's going to take public outrage, and I think we're closer to a reasonable solution than we think. We've seen a lot of positive changes—there are a lot of groups and organizations; there's a lot of positive will. I think we're going to see a movement among the citizens to demand a more reasonable approach than the War on Drugs—especially in this economy, at a time when we can't even afford to pay for school.

Health care, mental health care, is now on the public radar. We're not really addressing mental health in America; we're not spending the money to take care of our citizens on a real level. We're spending money to have the police violently break into their houses and put them in jail. We're spending money to keep them in jail for nonviolent, peaceful and personal activities. I think the outrage will grow into an outcry ... because all that wasted money could have been spent on more important things.

### Like on treatment rather than on incarceration?

Absolutely. 

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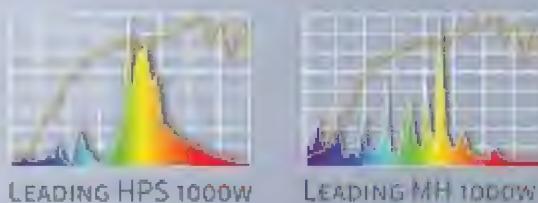
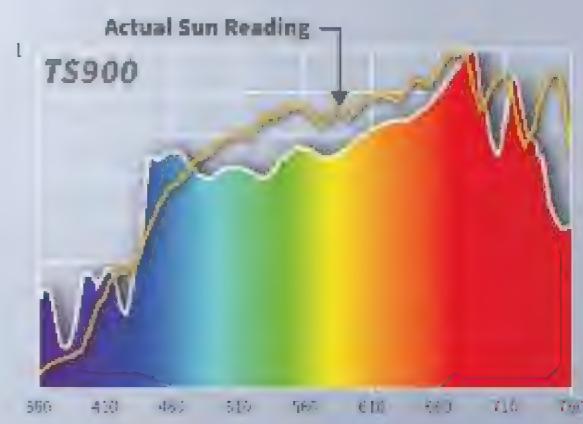
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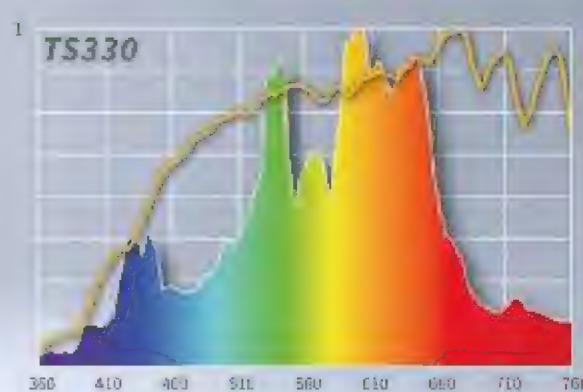


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# Expert Grow Advice

Pruning auto-flowering plants, DWC water levels, burnt leaf tips, low-heat lighting and more ...

Send your cannabis cultivation questions to [@deardanko](http://deardanko) or [deardanko@hightimes.com](mailto:deardanko@hightimes.com).



SUBJECT: **Low-Heat Lighting**

FROM: **Danyo**

Hi I was wondering how I could grow plants the fast way indoors, in soil and using low-heat bulbs. What would be the best kind to use, and how many would I need for a 4' x 4' space? I would appreciate any feedback. Much mahalo, and aloha!

Dear Danyo,  
For low-heat lighting, you have two

basic options: fluorescent bulbs or LEDs (light-emitting diodes). Fluorescents are more affordable than LEDs, and there are several options to choose from. Traditional T5 fluorescents are the longer, linear tubes, typically 2 to 4 feet long and costing, at most, a couple of hundred bucks per unit. These work best for plants in their vegetative stage (mother plants, seedlings, and rooting or rooted clones), but T5s can be used throughout the entire growing process and will produce flowers.

Compact fluorescent lights (CFLs) tend to take up less space, but my feeling

is to stick with the T5s unless the width of your space is an issue. Your best bet is to light from the top with the T5s and use CFLs as side lighting to increase your yield without adding too much to your heat or budget.

LEDs are showing more and more promise, but the cost-to-benefit ratio still favors fluorescents, particularly those with the proper spectrum for plant growth. We've seen some good results from all-LED grows, but when the price of these units is taken into consideration, I think we still have some ways to go before the true benefits of LEDs become clear.

*Danko Tip:* Never point a fan directly at your hanging branches after harvest. The buds will dry out too quickly and burn improperly.



**SUBJECT:** Burnt Tips

**FROM:** Smokey

My plants always have burnt tips on their leaves—sometimes more and sometimes less, but with every harvest I always seem to be looking at crispy leaves when I'm trimming. What is causing this, and how can I avoid it in the future?

Dear Smokey,

Burnt tips are always a sign of overfertilization. Too much plant food causes the tips of the leaves to start getting crispy, as you've described. Further overfeeding will only make the situation worse, until you have a toxic level of salts building up in your plants and they begin to die. The important thing to remember when feeding plants is that it's much easier to add

food than it is to remove it.

The first thing you should do is to flush your plants with plenty of plain water to reduce any existing nutrient buildup. You might be noticing white residue on your plant pots: This is a sign of too much salt building up in your growing medium. Slowly add one-quarter to one-half-strength nutrient solution and you should see new growth start to emerge. Err on the side of caution and you won't be dealing with burnt leaf tips any longer.

The other big added benefit to not overfeeding your plants is that your buds will taste better and burn properly to a clean white ash. Too much nutrient buildup left in your flowers will make them taste harsh, and it can also be harmful for medical patients with compromised immune systems. Your lungs

will thank you when you take in a toke of clean-burning, fertilizer-free cannabis.

**SUBJECT:** Writing for High Times

**FROM:** Enrique B.

How can I publish an article in your magazine? I have a pretty interesting story and theory regarding cannabis. Thanks!

Dear Enrique,

We get this question quite a bit, so I'm glad for a chance to answer it in my own words. We have guidelines posted on our website, and they are fairly comprehensive when it comes to what we're looking (and not looking) for as far as articles from contributors go. Those guidelines are a great place to start. Simply go to [hightimes.com](http://hightimes.com) and click on submissions at the bottom of the page to read them.

My personal guidelines for contributions to the cultivation department would be to first put your proposal in writing and email it to [edit.grow@hightimes.com](mailto:edit.grow@hightimes.com). Please be succinct, and be sure to outline the subject you wish to write about clearly and with proper spelling and grammar. Also, we're not looking for first-person accounts of your cultivation experiences; you can save that for the online grow forums.

Ideal grow articles from contributors would highlight a new growing technique, a step-by-step guide to solving a cultivation dilemma, a how-to piece on building grow equipment, or a garden profile that takes the reader from the start to finish of a harvesting cycle. Other articles of interest would focus on one particular aspect of growing and delve into it more deeply, such as a detailed discussion of nitrogen or a guide to better cloning practices.

As always, photos are supremely important for the visual aspects of the article to shine. High-resolution digital photos of the techniques and equipment described are a must. Beauty shots of lush green plants or trichome-covered buds ready to harvest also help drive home the visual aesthetics of your proposed article. You'd be surprised how many story pitches come to us with blurry cellphone photos that simply cannot be printed in *High Times*.

One last note: I'm amazed how many times I've outlined these guidelines for people and never heard back from them.

Guava Chem



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*Danko Tip:* Remove male plants from your garden as soon as you've determined their sex to avoid seeding your female plants.

It's important to follow through on your ideas in order to see them in the magazine, but 99 out of 100 potential contributors find the actual work of taking quality photos and putting their ideas into writing daunting. Here's hoping more people decide to take the plunge and write cultivation pieces for our readers. It makes our own jobs easier and adds more voices to the ongoing quest to help people improve the quality of the cannabis they grow. Good luck!

---

**SUBJECT: Water Level in DWC**

**FROM: Mike L.**

Hi! I'm in the process of switching over to a homemade deep-water culture (DWC) system and was wondering where the water level should be. Should it touch the bottom of the pot, completely submerging the roots, or should the roots be about three-quarters to halfway (or less) submerged?

Dear Mike,

The water level in your DWC hydroponic system will get lower as your plants and their root systems grow bigger. At first, the water level should touch the bottom of your net pots in order to let the roots reach the nutrient solution. As the roots grow downwards, you can lower the water level so that the roots dangle in the water but the level doesn't reach all the way up to your net pots.

Always oxygenate your nutrient solution with an air pump and air stones to ensure that the roots are getting oxygen. Depending on how strong your air pump is, the bubbles in the bucket will burst at the top and allow tiny droplets of water to reach the roots dangling in the air. (And the more aeration, the better.) As the water level drops due to the plants taking up the nutrient solution, add more solution (balanced to a pH of around 5.8) as needed.

---

**SUBJECT: Why Grow Auto-Flowering Plants?**

**FROM: Dillinger**

Hi! I'm a user of weed for 24 years and a grower for the past 20. Also, for the last 11 years, I've been a med-pot patient in California legally growing my own medication, and I've seen it all when it comes to strains—except for these new auto-flowering varieties. I've been wondering if they're for real. Do they have a lack of



potency—and if so, what's the point? Every med-pot state and even the two new legal states have rules regulating the amount of plants we can grow. So if I'm limited to six plants, and my choice is between six huge indoor plants or six small auto-flowering ones that barely give me an ounce each, I think I'm going with the six huge plants.

Also, auto-flowering plants can't be cloned. Don't get me wrong: I'm guessing there's a use for them, but what is it? And I would also like an honest answer about potency. I am growing some Skywalker OG that's 23% THC and another strain from BOG that's clone-only at 28%. I would love to hear your opinion on this. Who knows—maybe I could raise 500 of those auto-flowering plants in a small space that no one would ever guess had weed growing in it.

Dear Dillinger,

There are many reasons people grow auto-flowering plants. Some growers are simply too lazy to deal with the extra work of growing out regular seeds, picking out the females and discarding the males. They simply want to plant some beans, walk away and come back to harvest in 90 days or so. Many European growers prefer auto-flowering plants due to this ease-of-growth factor.

Growers in high altitudes or places where the frosts come early can also take advantage of auto-flowering plants in

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*Danko Tip:* Transplanting root-bound plants into bigger containers will result in larger eventual yields.



Auto-flowering plants stay short and stocky.

order to finish up their harvests in short seasons. Others like the fact that they can harvest in those months when cops and rippers aren't usually on the prowl looking for plants to confiscate or steal. Short plants that finish flowering in June are less likely to be discovered than larger ones in October.

As for potency, the genes that cause auto-flowering come from *Cannabis ruderalis*, a variety from Russia that produces little in the way of THC. Over time, smart breeders will select more potent versions of their crosses using these *ruderalis* strains to ensure that the potency levels are decent—but there's always an inevitable decline in potency with auto-flowering strains. Many who grow them can live with this tradeoff because they're either okay with producing less-potent pot or plan to turn it all into hashish anyway, so it's less important to them. The decision is always one for each individual grower to make.

My personal opinion is that if you're going to take the time and effort to grow your own cannabis, why not grow the best you possibly can? If that means extra work culling the males and choosing the strongest females as either seedlings or mother plants for taking clones, then by all means do the extra work. If all you want to do is produce a decent harvest with the least amount of work put in, grow auto-flowering plants. I've listed the reasons for doing so not as a recommendation, but just to let our readers know their options.

**SUBJECT:** Pruning Auto-Flowering Plants

**FROM:** Grant

With an auto-flowering plant, would pinching, FIM-ing and/or super-cropping be advised or advantageous?

Dear Grant,

It is not advisable to pinch or prune auto-flowering plants due to their short vegetative time. Because auto-flowering plants begin to form their flowers at a small height (typically around a foot or so), any pruning you do will inevitably reduce the amount of flowering tops and adversely affect your harvest. Instead, let them grow as they would naturally and avoid interfering with them in order to yield the most from each plant. \*

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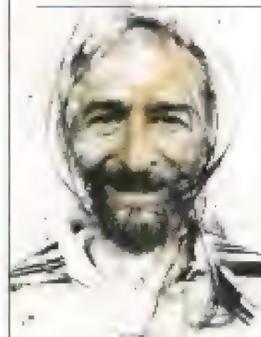
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## A Plant for All Reasons

Cannabis and its relation to obesity, pain relief and the creative spark.

Got a question for Dr. Mitch? Email him at [420research@gmail.com](mailto:420research@gmail.com).

Do you think anyone will ever come up with a "diet" strain of cannabis—one that won't cause the munchies or increase appetite?

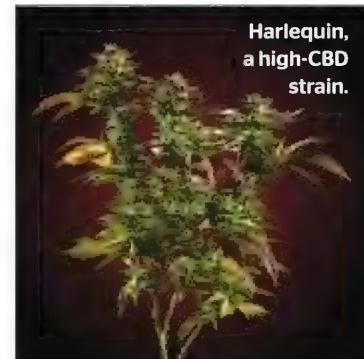
*Bubbler*

Hi Bubbler,  
Never underestimate the resourcefulness of cannabis breeders! THC's impact on appetite is undeniable, though it probably varies with strain and dose. However, two huge surveys do suggest that obesity rates are lower in folks who *do* use the plant than in those who don't. So while I'm not recommending cannabis as a diet aid, the plant doesn't seem to fatten everyone.

Can you recommend a strain for pain?

*Working Stiff*

Hi Working,  
Pain is a complicated phenomenon, especially since it's manifested according to a person's biological makeup. Relaxation, regular exercise and good sleep habits are essential for relieving pain. In terms of cannabis medicine, a moderate dose seems to have the best impact. Keep in mind, though, that high-THC strains may not work as well for pain as those with higher levels of CBD, which affects inflammation in novel ways and provides more relief. I wish we had better quality control and trademarks in the world of cannabis, but Sour Tsunami, Jamaican Lion and Harlequin are all strains that seem to possess more CBD than average.



High-THC strains may not work as well for pain as those with higher levels of CBD, which affects inflammation in novel ways and provides more relief.

You've said in the past that there's no real link between marijuana and creativity, but I just don't believe it.

*Van Painter*

Hi Van,  
Creativity tends to correlate with personality traits like extroversion and openness to experience, and these traits also correlate with use of the plant. So while cannabis may not increase creativity, creative people do seem to like the plant. However, a new study has shown that people who are deficient in creativity can catch up to those who aren't, at least in terms of completing so-called divergent-thinking tasks, after smoking cannabis. So maybe there *is* more going on here than I've been willing to assert in the past. \*

*Mitch Earleywine, PhD, is an associate professor of psychology at SUNY Albany and the author of Understanding Marijuana and The Parents' Guide to Marijuana.*



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## Seven Candles for Peace

A gift to promote telepathic energy.

I've come up with a new concept for resisting the tide of violence, hatred and bigotry currently washing over the land. I call it "Seven Sacred Candles for Peace." I've actually had a set of these candles on my personal altar for many years, but it was only recently that I started making my own and realized that these make a really nice symbol for world peace.

Whenever some outbreak of violence erupts from now on, I plan to light my seven candles and post a picture on the Internet as my way of dealing with the "shit-uation" (as Peter Tosh would say). And if I am close enough to the catastrophe, I may even take my candles to the scene of the crime and light them in a public ceremony on the spot. It's better than doing nothing as the tide of violence keeps rolling in.

Kids today are being led down a path of violence addiction (as well as pill addiction), and I'd like to flip that switch and see if we can't encourage another generation to walk the path of peace like mine did in the 1960s. So I started making these waxen talismans for world peace: I call them Magic Chakra Candles, and they represent the Rolls-Royce of candle magic.

When I stumbled upon the idea, I immediately called Wavy Gravy and announced: "I have invented a device that receives, stores and amplifies telepathic energy. Would you like one?" Wavy had no idea what I was talking about, but he gave me his address and, a few days later, his mind was blown when he unpacked Magic Chakra Candle set number 20 and a gigantic love bomb went off in his lap. "You have inspired me," he told me, after thanking me profusely for such a wonderful gift. "You know," he added, "I've been doing this sort of thing for many years."

"Wavy," I said, "you are the grandmaster of Improvisational Ritual Theater, which is why I wanted you to have them in the first place! Most kids today think

420 is all about getting high," I continued, "but pot is just the sacrament—the culture is about *peace*." Wavy's response followed a long period of silence and for a moment I thought we'd been disconnected. It's the first time I've heard him speechless.



The seven candles create an instant altar.

It actually took me seven years to develop this concept to the stage it's at today, but it didn't take off until I started making

the candles. If you go to a magick shop and look for spell candles, you'll generally find inexpensively produced ones. But I wanted to create the world's greatest ceremonial candles by using the best ingredients possible, including the most spiritual and healing (and expensive) plant oils, a list that includes frankincense, jasmine, lavender and rose—and, of course, zero petroleum products.

Included with each candle is a very special gem. I think of these gems as the "batteries," and the better they are, the better the telepathy seems to work. The seven candles represent a lot of things: the seven chakra energy centers, the seven colors of the rainbow, the seven notes of the musical scale, the seven days of the week, and the seven major spiritual traditions of the world. When placed together, they form an instant altar that points "up" and going "up" is always a good thing.

Somehow, these candles seem to have the magic effect of leading people effortlessly into a more meditative and ceremonial path. Maybe they'll work for you? They sure did for me. You can build your own set—simply follow my specifications—or you can just buy a set from me off *Amazon.com* for \$175. The candles are signed and numbered, and I plan to produce only 420 sets. The final set will be delivered to the Waldos, the inventors of 420, at the top of Mount Tamalpais in a very special ceremony that will be open and free for all to attend. That may take a while, but I'll keep you posted.

In the meantime: Peace. \*

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## Andy, Did You Hear About This One?

Honoring the antagonistic and enigmatic entertainer Tony Clifton.

**A**s a kid, I distinctly remember seeing Andy Kaufman singing the "Mighty Mouse" theme on *Saturday Night Live* and thinking he was funny—not just "haha" funny, but *strange* funny. Of course, this was long before I came to worship his avant-garde comedic genius. Of all the pranks Andy ever pulled on the public, none was more epic or enduring than the character of Tony Clifton.

"Discovered" by Kaufman in a seedy Vegas lounge in 1969, Clifton was the crooner from hell—perpetually drunk and obnoxious, wailing nasally and insulting the audience until driven from the stage (or the set of *Taxi*). And while the world speculated as to whether Clifton was a fabrication or a fiasco, Andy just sat back and laughed at the confusion he'd created. Since Andy's death in 1984, Clifton has resurfaced to cause trouble numerous times—most visibly around the release of the Kaufman biopic *Man on the Moon*. I hadn't heard anything about him in years, so imagine my shock when my buddy B-Doe, a DJ at Austin's KLBJ, mentioned that Tony would be at SXSW promoting his own film (*Tony Clifton: The Movie*) and asked if I'd like to have him attend the Doobie Awards. Attend? Hell, I replied, I'd give him a Lifetime Achievement Award!

When Clifton arrived at our Cowboy Cup party, I was fully expecting the annoying asshole of modern lore. Instead, the Tony I met was a total pussycat. Despite his sweet disposition, however, that old tasteless Clifton humor still shone through—particularly when he told me about the first time he'd toked up.

"It was at the [1968] Democratic National Convention in Chicago," Clifton recalls. "The Yippies wanted people to come to Lincoln Park to their protest, so they put up posters around town with pictures of young hippie girls, saying: 'Come smoke grass and make free love in the park.' So I go over there and I meet a girl. She was on acid, I was

boozing ... it was the first time I had grass, and also the first time I had anal sex—she really wanted it up the old keister! I fucked her in the pussy and in the ass, back and forth ... nine months later, come to behold, she's pregnant. Now I got a son—his name is Toby. I love him, but he's a mongoloid monstrosity. He's a grown man with the brain of a 7-year-old. I'm convinced it was the mixture of my sperm, her egg, her shit on my cock, and the grass and the acid she was on that created the monstrosity."

When the topic of medical marijuana came up, his thoughts turned to Andy.

"Maybe Kaufman shoulda done that"—smoked marijuana—"he'd still be alive today," he speculates. "People still come to my show and ask, 'Are you Andy Kaufman?' I say, 'You wanna see Andy Kaufman? Get yourself a shovel and a flashlight!'"

Before parting ways, Clifton presented me with a photo of himself signed, "From one wild man to another—your pal, Tony Clifton." At his request, I returned the favor, signing a Doobies poster for him that read, "Tony—thanks for mentoring me all these years."

The next day, just after 4:20, I took the stage to present Mr. Clifton with his trophy.

"Each year, we recognize one legendary performer with our Lifetime Achievement Award in music," I proclaimed. "Past winners, such as Willie Nelson and Snoop Dogg, are all artists who have devoted their lives to values that we at *High Times* stand for—values like integrity, activism and courage. Unfortunately, this year's recipient reflects none of those. He does, however, embody other principles that we represent—like individuality, irreverence and indulgence. Ladies and germs, stoners and stonettes, it's my great honor to present the Doobie Award for Lifetime Achievement to the King of Las Vegas ... the man, the myth, the jackass ... Mr. Tony Clifton!"

Handing him his award, I could almost see Andy laughing up in heaven—if he made the list, that is. \*



Watch Tony accept his award at [hightimes.com/tonyclifton](http://hightimes.com/tonyclifton)



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# Brave New World

Emerging regulations, controls and taxation levels will impact the cannabis industry both positively and negatively.

Allen St. Pierre is the executive director of NORML. Visit [norml.org](http://norml.org).

## THE POSITIVE

### Cannabis Tourism

Adults from anywhere in America—and the world—can now travel to two US states, Colorado and Washington, to legally consume cannabis. Colorado's already active and lucrative tourist industry will be enhanced. Washington hasn't formally announced that cannabis tourism will be welcomed, but it is expected to follow Colorado's lead.

### Domestic Hemp

Both states' legalization initiatives allow local farmers to finally break the federal government's ban on industrial hemp. After eight decades, American entrepreneurs will no longer be forced to acquire hemp-related materials from foreign producers, paying hefty taxes and import tariffs in the process.

### Mainstreaming the Industry

Distinguishing themselves from reform groups interested in social justice, established entrepreneurs are hiring top lobbying firms to advance a business agenda. The number of cannabis-related lobbyists in state capitals and in Washington, DC, has more than doubled since November.

### Defending Cannabis Commerce

State governments must now guard against heavy-handed federal intervention and seek to maintain their autonomy as "laboratories of democracy" (to use the famous phrase attributed to Supreme Court Justice Louis Brandeis) under our system of federalism.

### Questioning the Drug War

With two states finally dismantling decades of cannabis prohibition in favor of tax-and-regulate

policies, citizens, policymakers and mainstream media outlets in other states are sure to start asking: "Why can't we legalize cannabis too?"

### Cultivation Encouraged

Colorado's legalization law allows for the home cultivation of up to six plants; Washington's law, unfortunately, does not. As a result, the state's activists and business leaders have prioritized amending that law to allow for home cultivation.

## THE NEGATIVE

### High Taxation Rates

Legal cannabis will be subject to widely varying levels of state taxation. Voters in Washington approved a 25 percent sales tax on the retail sale of cannabis products. Colorado hasn't established firm taxation levels yet, but a rate of 10 percent or more is expected.

### Barriers to Entry

State governments can create a number of hurdles for entrepreneurs, such as barring formerly convicted cannabis cultivators and sellers from owning or working at a legal cannabis business. The cost of bonding a canna-business can also be set prohibitively high. Requiring escrow funding—to the tune of \$500,000—can dictate who is able to become a member of an investment group. State license fees and hefty annual operating fees can also inhibit the industry's growth.

### The "Control" Factor

In New Jersey, the government has allowed a single medical cannabis dispensary to open. In Connecticut, Maine, Massachusetts and the District of Columbia, governments have arbitrarily capped the number of outlets permitted: for example, five

in DC, 12 in Maine, and 35 in Massachusetts. By severely limiting medical cannabis outlets, states in effect create oligopolies in which the industry is dominated by a small number of sellers.

### Public Use

All cannabis use must take place in private. But in Colorado, creating "membership-only" cannabis clubs for adult use has begun to challenge this standard.

### DUID

Changing the ridiculously unfair DUID (driving under the influence of drugs) statutes as they pertain to cannabis—whose residual byproducts remain in the body far longer than drugs like heroin or cocaine—is now a top reform effort for activists.

### Interstate Travel

States that border Colorado and Washington have announced their intention to double down on highway stops in order to prevent cannabis smuggling. Canadian citizens re-entering their country can expect to be interrogated on the subject.

### Drug Testing

High courts in nearly half a dozen medical cannabis states have ruled that medical cannabis patients are not exempt from government or corporate drug testing and can be lawfully terminated if they test positive.

### Federal Conflicts

The overarching question remains: Will the federal government allow states to create cannabis legalization policies that are in conflict with current federal law and international treaty obligations, or will it attempt to set an example by coming down hard on Colorado and Washington? 🌿

## FREEDOM FIGHTER

### The Heat Is On!

Karen Goldstein champions medical marijuana in Florida.

Four years ago, Karen Goldstein helped found NORML of South Florida. Over the next few years, the group grew steadily until it became the statewide affiliate for NORML, working hard to change Florida's marijuana laws all the while. Its focus is on building relationships with elected officials and engaging in lobbying efforts to convince the state legislature to

embrace reform.

In 2011, those outreach efforts paid off when Representative Jeff Clemens introduced the first joint resolution in the Florida House of Representatives to allow for the

medicinal use of cannabis. Although that resolution didn't succeed, Karen and her colleagues are keeping up the heat: This year, medical marijuana legislation has been introduced in both the Florida House and Senate.



While Karen was addressing the Broward County legislative delegation this year, Representative Katie Edwards announced her intention to sponsor the House version of this new bill. During her tenure as executive

director, Karen has addressed Democratic Club meetings, civic associations and city commission meetings, as well as presenting at the Silver Tour, NORML's outreach effort to senior citizens. She is also

a frequent spokeswoman for marijuana law reform in the local media, discussing the issue in both radio and newspaper interviews. And she helps put on the group's annual benefit concert, which brings awareness of the issue to the general public through informative speakers, educational literature and music.

"Many people say that Florida is a lost cause when it comes to drug law reform," Karen observes. "I disagree, and I'm working hard to prove that they're wrong."

by Erik Altieri, NORML communications coordinator

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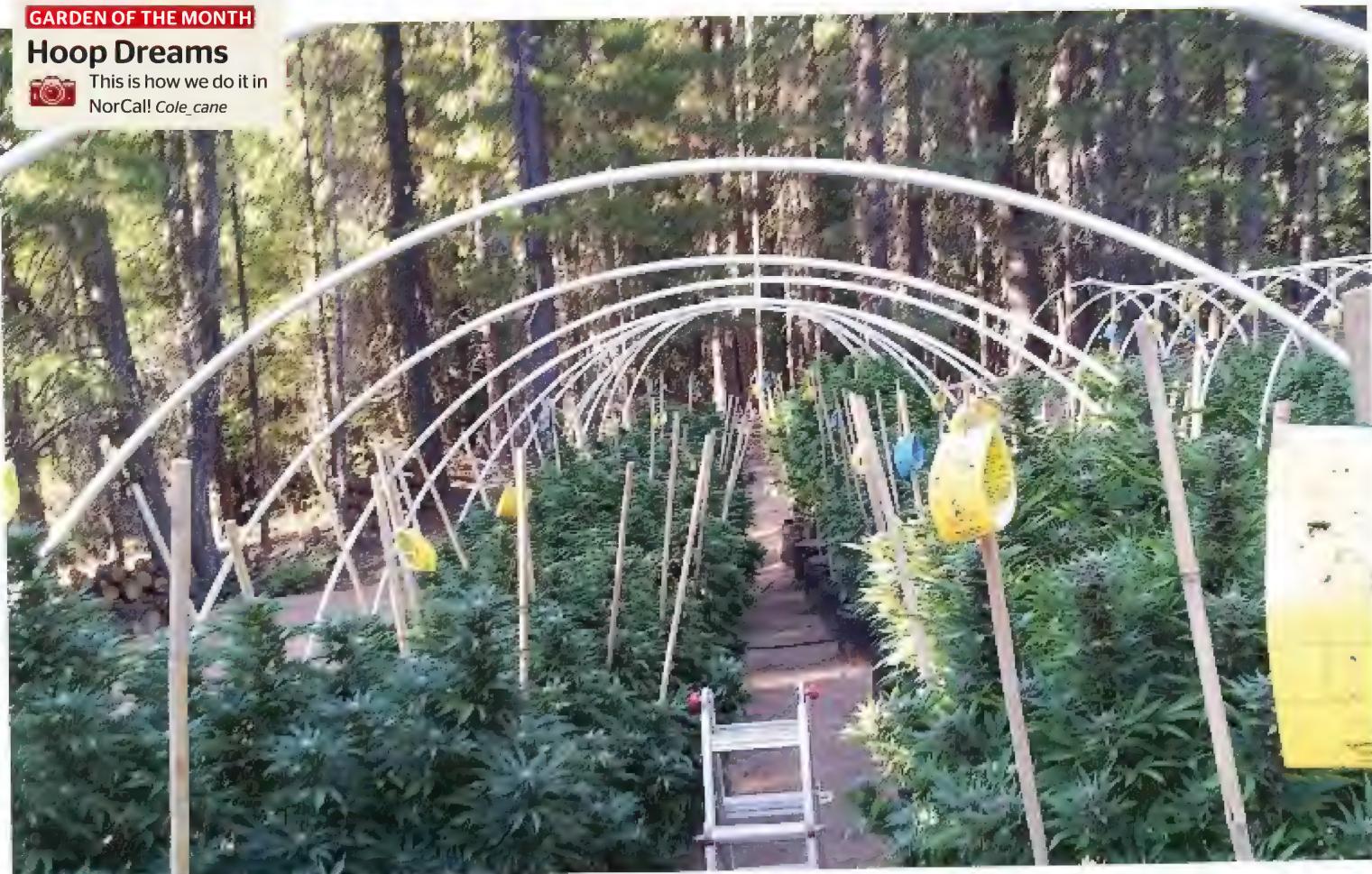
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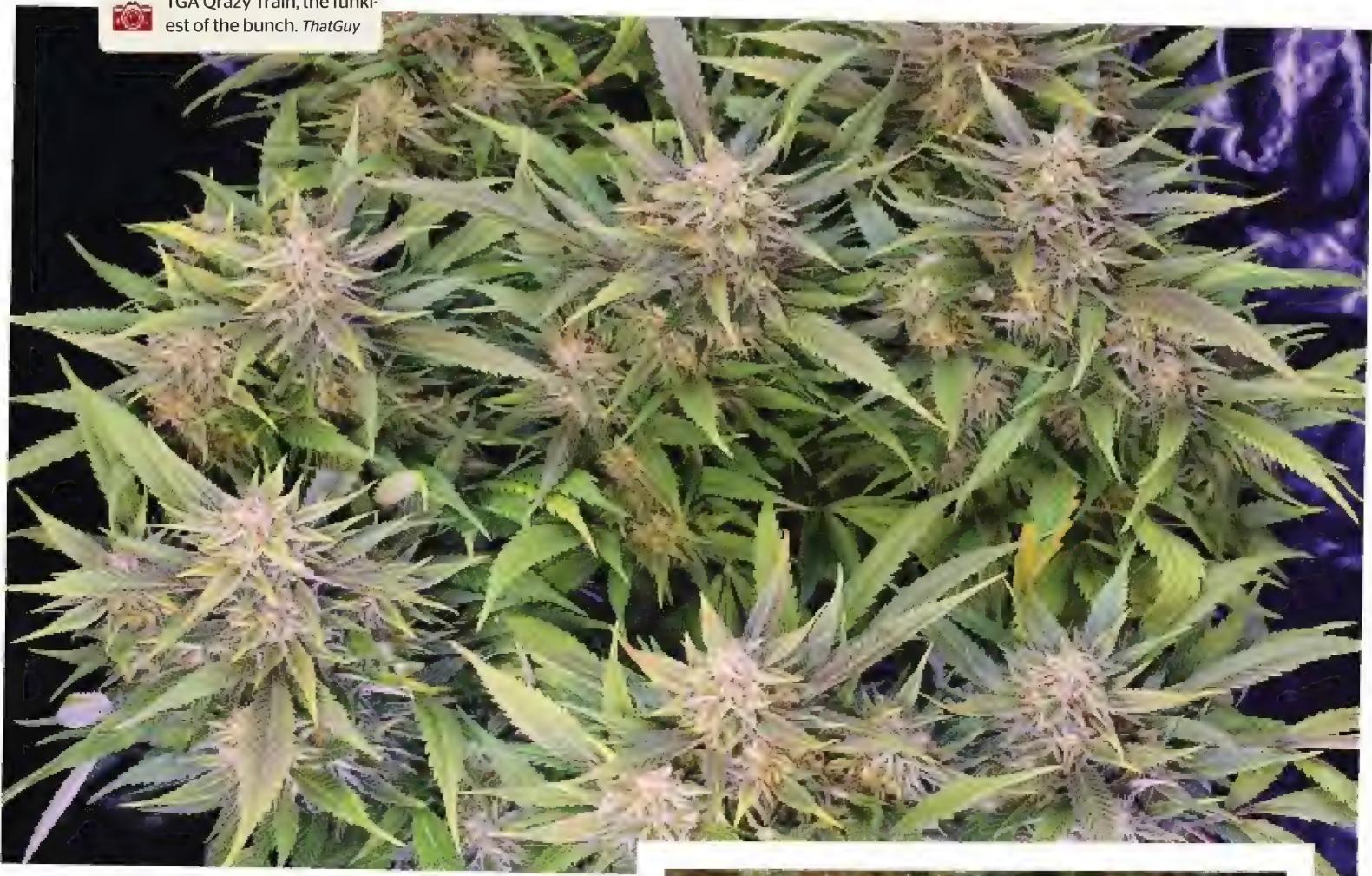
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## GROWER OF THE MONTH

## Outlaw Gardener

This is my baby I've been developing over the last 10 years. I call it Fruit Loop. It's a back crossed Blue Cheese x Blue Nepalese x Grapefruit Haze (auto-flowering). It tastes awesome and finishes around 45-50 days in a organic soil garden, under 1600 watts HPS in a 5'x5' grow tent. Outgrow the Government. *Todd S.*



## NUG OF THE MONTH

## Trichome Overload

Here's a picture from my garden. This was grown organically with love in Northern California. I hope you enjoy! *Karl Kulik*

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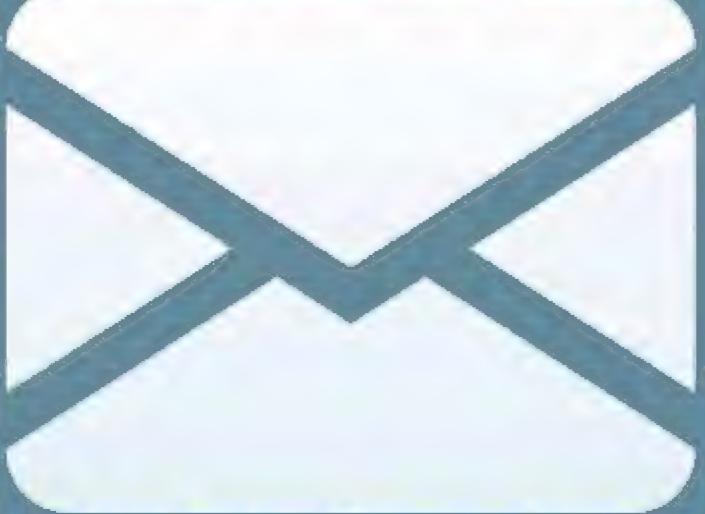
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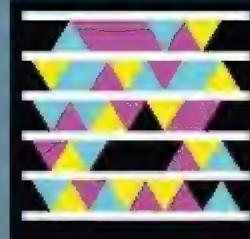
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**SEPTEMBER 2013**

# HIGH TIMES

The O-G Worker Bee  
Ultimate Package,  
one of our top picks  
for Gear of the Year.



## ► Gear of the Year 2013

Every year in our September issue, the *High Times* cultivation department reveals its list of the top pot products of the year. From grow lighting to harvesting equipment, we've tested them all of them "in the field" in order to bring our readers the full list of technological triumphs in cannabis cultivation merchandise that merit inclusion in our Significant Technological Achievements in Secretive Horticulture (STASH) Awards.

## ► Harvest in Jamaica

Have you ever bought a bag of herb on the beach in Negril? Get the inside scoop on how it got there. Take a journey that begins in the ghettos of Kingston, Jamaica and ends in the lush herb fields of St. Ann's parish.

## ► Pediatric Pot

Meet Oregon's youngest medical marijuana patient, 7-year-old Mykayla Comstock. With positive thinking, the help of a loving family, a healthy diet, RSO oil and cannabis juice, Mykayla is bravely fighting leukemia and winning!

## ► The New Glass

Editorial director Dan Skye visits America's top glassblowers and showcases some of the hottest new oil rigs available and the exquisite, functional pipes that top artists are creating.

## ► Redman in the House

Twenty years ago, Redman appeared on our cover. Since then, he's been a regular *High Times* events headliner. The iconic rapper explains his enduring popularity and success.

The Single Seed  
Centre

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Experience Helping Men Improve Their Sexual Performance.

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GIRTH ARE IMPORTANT. LARGER IS MORE DESIRABLE.

## Size Can Be 2 To 3 Inches Bigger.

### DOCTOR REVEALS THE TRUTH ABOUT MALE ENLARGEMENT

I am a sex therapist and for more than 25 years I have helped men with erectile dysfunction including size, impotency and premature ejaculation. I am offering a pill that can eliminate all the effort and expense of trying to be larger, wider and firmer.

### CAN HELP YOU TO REACH YOUR MAXIMUM POTENTIAL SIZE.

You can have a change in length and width. Your sex partner can see and feel how thick, long and hard you are. You are much larger now and you will penetrate the most sensitive areas of the woman including her G-Spot. These sensations can produce for her multiple orgasms and give you the confidence of being a better lover.

### CAN YOU HAVE LONG LASTING OR PERMANENT RESULTS?

Dr. Bross advises, Every man is different and individual results will vary. Size can be 2 to 3 inches bigger and can have long lasting results when you continue to take PRO+PLUS PILLS. The longer you take PRO+PLUS PILLS you can have a longer, thicker and harder penis.

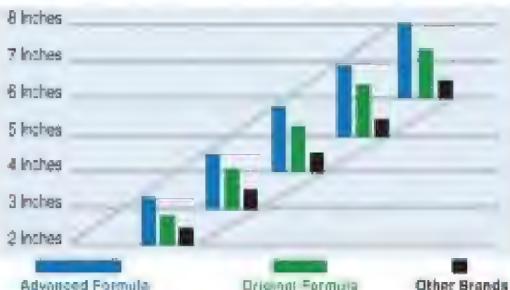
### EVERYTHING MATTERS Size, Endurance, Performance

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PRO+PLUS PILLS are a natural, non-prescription herbal enlargement formula. We also include the same type of herbs found in Polynesia where some men have sex 3 times a night, every night. Your sexual performance can improve substantially. PRO+PLUS PILLS can help boost your sexual energy, stamina and help stop premature ejaculations.

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### WHICH FORMULA IS BEST FOR YOU?

#### PRO+PLUS PILLS ADVANCED FORMULA

Our formula can help men with a form of HYPOSPADIAS. (HYPOSPADIAS can make a man's penis smaller) or a man with a small penis since they were young. Penis size now is less than average and need an accelerated enlargement to reach a much firmer erect penis size. Can also be used by men with a larger penis that want to take advantage of the acceleration feature and maximum penis enlargement.

#### PRO+PLUS PILLS ORIGINAL FORMULA

This formula is for men who are now 6 inches or more and want maximum enlargement.

#### WHAT CAN PRO+PLUS PILLS DO FOR YOU?

- Erection size can be 2 to 3 inches bigger.
- Enjoy powerful, intense orgasms.
- Reduce recovery time between sexual intervals.
- Erections when you want them. Firmer, bigger erections every time.
- Because there is more blood flow, your penis is thicker and larger.
- Long lasting results when you continue to take PRO+PLUS PILLS.

### PRO+PLUS XTREME IMMEDIATE FIRM ERECTIONS

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For men who want to improve their sexual performance and enhance erection firmness.

Intense Erections, Incredible Orgasms, Increase Sensitivity, Arousal and Sexual Stamina. Dynamic staying power. Greater Self-Confidence. 100% Natural. Frequent and longer lasting intimacy. Take your partner to new levels of satisfaction. You can have longer, firmer erections and stronger climaxes. Carry the PRO+PLUS XTREME handy 4 pack with you all the time.

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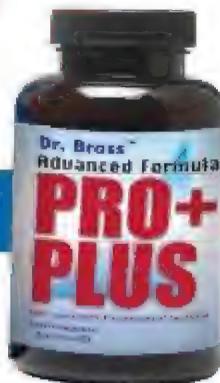
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**COLT**

6 - 4 - 4

STAGES 1 - 2  
GROW - TRANSITION



**TOTEM**

1 - 4 - 5

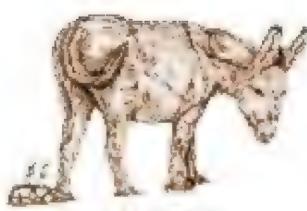
STAGE 2-3  
TRANSITION - BLOOM



**AWAKENING**

2 - .8 - .02

STAGES 1 - 2 - 3  
GROW - TRANSITION - BLOOM



**BURRO**

.2 - 0 - .1

STAGES 1 - 2  
GROW - TRANSITION



**CONE**

0 - 14 - 15

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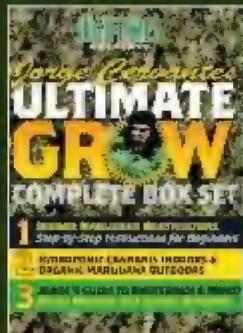
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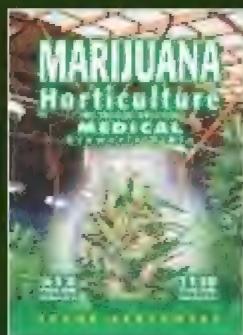
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## Classics from master grower Jorge Cervantes



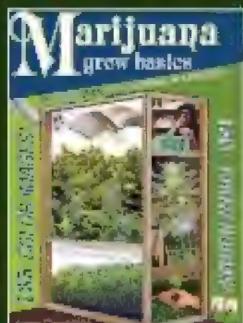
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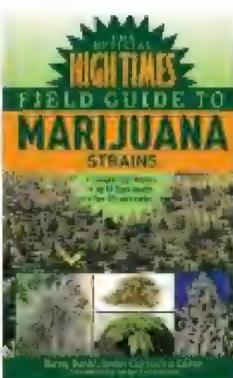
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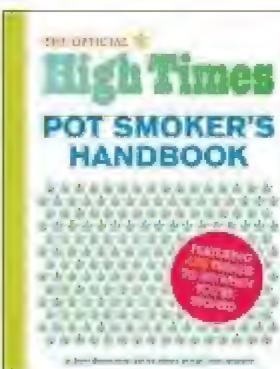
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By Danny Danko  
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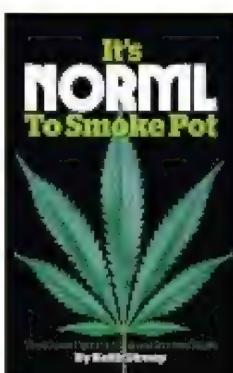
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### The Official HIGH TIMES Pot Smoker's Handbook

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### It's NORML To Smoke Pot: The 40-Year Fight For Marijuana Smokers' Rights

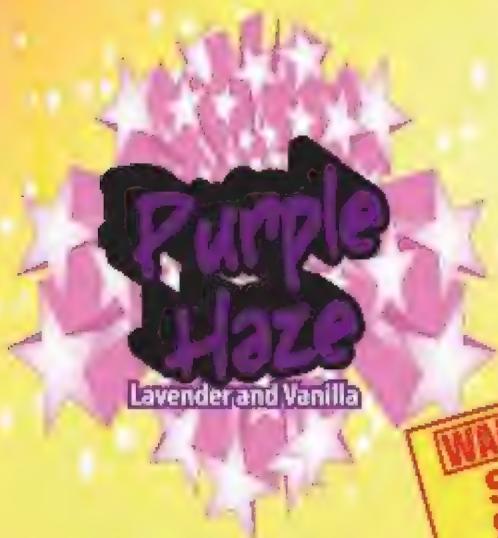
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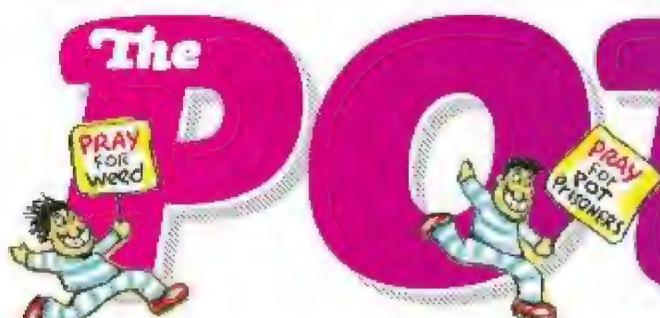
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